

ANNUAL REPORT
OF
THE MINES BRANCH
OF THE
Department of Lands and Mines
OF THE
PROVINCE OF ALBERTA

1936



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EDMONTON, ALBERTA,
March 5th, 1937.

TO THE HON. N. E. TANNER,
Minister of Lands and Mines.

SIR:

I herewith submit the report of The Mines Branch for the year ending
December 31, 1936.

Respectfully submitted,

ANDREW A. MILLAR,
Chief Inspector of Mines.

ANNUAL REPORT OF THE MINES BRANCH FOR THE YEAR
ENDING DECEMBER 31, 1936

(ANDREW A. MILLAR, *Chief Inspector*)

The output of coal produced from mines in the Province during the year was 5,696,375 tons, with a valuation of \$14,720,004.06, being an increase of 233,402 tons over the output of 1935.

In addition to the above tonnage, there were 2,603 tons produced by farmers under permit, for their own use, which tonnage has not been included in the total output. There has also been a considerable tonnage produced by farmers without either permit or lease; of this tonnage we have no record.

The disposition of coal during the year was as follows: 1,356,690 tons sold for consumption in the Province of Alberta; 2,000,284 tons sold for consumption in other Provinces of Canada; 27,397 tons sold for consumption in the United States; 1,969,560 tons sold to Railroad Companies for locomotive use; 19,472 tons used making briquettes; 97,353 tons used making coke; 149,600 tons used under colliery boilers; 6,912 tons used by colliery railroads; 56,239 tons put to stock; 80,203 tons put to waste. The above tonnages include coal lifted from stock and waste heaps, which is not included in the total output.

The coal produced by farmers under permits is not included in the total output, neither is the producing of such coal included in any tables, this information being given in a separate table, and is done in order that there should be no confusion of the regular statistics.

There were 305 mines in operation during the year, of which 17 were opened, 11 re-opened and 30 abandoned. In addition to the mines abandoned there were 28 mines temporarily closed, leaving 277 mines in operation as at December 31, 1936.

There were 411 persons examined during the year for certificates of competency as coal miners, of whom 365 were successful, making a total of 14,310 certificates issued to coal miners to December 31, 1936.

Samples of mine air were taken at several mines during the year by the inspectors, the samples being forwarded to the Chemistry Branch of the Department of Mines, Ottawa, for analysis, this being done in addition to testing the air with the Burrell & McLuckie gas detectors. In addition to using the Burrell & McLuckie gas detectors some of the mines have introduced the Ringrose Automatic Firedamp Alarm.

Samples of rock-dust, used for rock dusting the roadways in the bituminous mines, have been collected at intervals and forwarded to the Provincial Analyst to be tested for silica content.

Samples of coal have been collected and forwarded to the Industrial Research Department, University of Alberta, for analysis.

All fatal and serious accidents have been investigated by the inspectors, who also attended the inquests in their areas, this being in addition to the regular inspection of the mines.

The total number of fatal accidents were 11 as compared with 35 in 1935, 16 of these having been caused through an explosion which occurred at the mines operated by the Lethbridge Collieries, Limited, at Coalhurst, near Lethbridge.

There were 20 prosecutions instituted under The Coal-mines Regulation Act, of which 5 were owners, 8 officials, 5 miners, 1 car pusher and 1 farmer, the latter having worked without being the holder of a certificate as a coal miner.

There were 24,912,243 K.W.Hrs. of purchased electrical power used by the mines in the Province during the year, the distribution of purchased power used by mines in the various areas being as follows: Big Valley, 6,800 K.W. hrs. being purchased from the Union Power Company, Limited, of Drumheller, who also supplied 142,770 K.W. hrs. to mines in Carbon and 4,690,553 K.W. hrs. to mines in the Drumheller Area. Calgary Power Company, Limited, supplied electrical power to mines in areas as follows: Camrose, 5,080 K.W. hrs.; Edmonton, 1,312,069 K.W. hrs.; Gleichen, 1,881 K.W. hrs.; Lethbridge, 1,976,300 K.W. hrs.; Taber, 10,965 K.W. hrs. The East Kootenay Power Company, Limited, supplied 16,528,925 K.W. hrs. of electrical power to mines in the Crowsnest Area. The City of Medicine Hat supplied 132,000 K.W. hrs. to mines in the Redcliff Area. Two mines in the Coalspur Area exchanged 104,900 K.W. hrs. of electrical power, this being in addition to the power used and generated at each mine.

Two thousand seven hundred and eighty-three tons of steel supports have been used in the mines in the Crowsnest Area.

There were 9,956 men employed in mines during the month of December, being an increase of 265 men over the corresponding month in 1935.

There have been some changes during the year. The Pembina Colliery at Evansburg of the Royalties Oil & Share Corporation, Limited, which operated for a number of years, was abandoned and the plant dismantled.

The Imperial Mine at Coalhurst, operated by the Lethbridge Collieries, Limited, at which mine an explosion occurred in 1935, was also abandoned.

The Atlas and the Murray Mines have moved their plants to the South Side of the Red Deer River, the C.P.R. having built a bridge across providing railway connection. Both mines are now producing large tonnages.

Two other operations will possibly develop into large producers, viz., the New Monarch Mine operated by The Monarch Coal Mining Company, Limited, and the Cambrian Mine operated by the Cambrian Coal Company, Limited. The above mines have installed substantial plants with up-to-date machinery.

The Lethbridge Collieries, Limited, No. 8 Mine is now in operation, and largely replaces the No. 6 Mine at Lethbridge, also the Coalhurst Mine. This mine is equipped with two A.B. Universal coal-cutting machines, also three Sullivan Shortwall machines. These machines are electrically driven of the latest approved type. Steel construction is used in the head frame and tippie, and the screening plant is designed to give a wide range of sizes with a high standard of preparation. The main shaft hoist is an Ingersoll-Rand with Spiro cylindrical double drums, 6' to 9' in diameter. This is operated by a 500 h.p. electrical motor with automatic acceleration and is equipped with a Lilley control. At the airshaft a steam hoist has been installed, also a steel air-lock and head frame.

At the Shaughnessy Mine of the same company, a new Aerovane two-stage eight feet diameter fan has been installed in a concrete building, together with a concrete air-duct and air-lock. This fan delivers approximately 69,000 cubic feet of air per minute against a $2\frac{1}{2}$ " water gauge and is driven by a 60 h.p. motor. The air-shaft has been enlarged and provision made for handling men and material in same.

In the Crowsnest Area the use of hard hats by the workmen is increasing at all the mines, some of which have approached 100%. In other districts progress

along similar lines also with safety shoes is being made. The workmen and the companies are to be commended in pushing this phase of accident prevention.

The Hillcrest Collieries, Limited, has improved its screening and storage facilities, also have installed a fan on the rock slope at Falls Creek.

At the West Canadian Collieries, Limited, mines at Greenhill and Bellevue considerable improvements have been made, the chief of which are the installation of dust collector systems in the tipples at both mines.

At the International Coal & Coke Company, Limited, Coleman, the improvement programme commenced in 1935 was continued. The new wash-house has been completed, also a warehouse 34' × 80', both buildings being of hollow tile with stucco finish. The snow shed of wood construction forming the approach from the mine to the tipple has been removed and replaced by steel and corrugated sheet iron. A concrete pump house has been built on D level and one new 1,000 U.S. gall. per minute electrically operated 350 h.p. pump installed. A 150 h.p. generator set was installed to generate D.C. current for trolley locomotive service. Increased storage facilities have been provided and new coal dryer of the Louvre type installed. Two thousand eight hundred feet of rock tunnel work has been done during the year for the purpose of improving haulage conditions and to provide for future development.

A new D.C. kilowatt generator has been installed at the mine operated by the McGillivray Creek Coal & Coke Company, Limited.

Some mines have installed additional coal screening and washing plants.

At the Mohawk Bituminous Mines, Limited, a new coal washing jig of the Vissac type with necessary de-watering screens and sludge tanks have been installed.

A new wet washing coal plant has been installed at the mine of the Coal Valley Mining Company, Limited, giving very satisfactory results, dealing with sizes from 2" to 5".

A briquetting plant has been installed at the mine operated by the Brazeau Collieries, Limited, at Nordegg. This plant has a capacity of 10 tons per hour. It is now in operation.

Some of the small mines in the Edmonton Area struck feeders of explosive gas and, naked lights being used, there were some ignitions, one of which caused a fatal accident. These mines have now installed electric lamps of the cap type.

The result of the inquiry conducted by Justice H. W. Lunney into the explosion which occurred in 1935 at the Coalhurst mine operated by the Lethbridge Collieries, Limited, is as follows: There were seventy-two witnesses examined. The conclusion of the Commissioner was that it was clearly a gas explosion caused by gas accumulating in a cave or overcast, that the gas came from old workings and that the original ignition occurred either at the edge of the old workings or in the new workings, the ignition being caused by an open flame or from a damaged lamp; of the latter there is some circumstantial evidence, as the finding of a broken lamp near the point of ignition corroborates this theory. He also found that the quantity of ventilation was well in excess of the minimum requirements, but calls attention to the necessity of having ample ventilation passing the ends of the old workings and the necessity of keeping doors closed, as it would appear from the evidence given that the door was at times left open for longer periods than absolutely necessary for the passage of men and horses.

The report of the Royal Commission respecting the Coal Industry of the Province of Alberta in 1935, which was conducted by the Rt. Hon. Sir Montague Barlow, Bt., P.C., K.B.E., LL.D., was presented early in the year and printed

for distribution. The following paragraphs will give two principal problems which emerged from the inquiry, also the issues covered by the inquiry as found affecting the coal industry:

"The two principal problems today before the coal industry in Alberta which emerge forcibly from the present investigation are, first, *Marketing*; as indicated by many witnesses, Alberta is rich in resources of easily mined coal—coal for which, especially under present conditions, it is difficult to find adequate markets; this is an urgent problem, and demands the immediate attention of the Government and of the industry; secondly, *Regulation*; evidence disclosed serious complaints of unsatisfactory and even chaotic conditions in the Alberta coal industry or some portions of it, due to excessive competition, price cutting, unfair practices, and so on.

"Happily, there were no broad and contentious issues disclosed by the evidence in the relations of capital and labour, but there were certain problems of more limited application which the inquiry has revealed, relating mainly to the welfare and social conditions of labour, such as Workmen's Compensation, Mine Rescue Work, Housing, conditions in Closed Camps, and so on, which also, as in the case of the marketing problem above indicated, can and should be dealt with without delay.

"This Report accordingly, while covering the issues indicated in the Royal Commission, is concerned mainly with Marketing, Regulation and Social problems of restricted application as above indicated."

During the year the Coal Trade Commissioner's Branch was placed under my supervision and the office in Edmonton was abolished. The branch in Toronto is being still maintained, with Mr. E. S. Clarry in charge.

ANNUAL PRODUCTION OF COAL FROM MINES IN THE PROVINCE OF ALBERTA

The following table is taken from a report prepared by the Dominion Bureau of Statistics and published in "Coal Statistics for Canada" for the year 1935:

Calendar Year	Short tons	Value
1886	43,220	\$ 81,112
1887	74,152	157,577
1888	115,124	183,354
1889	97,364	179,640
1890	128,753	198,298
1891	174,131	437,243
1892	178,970	460,605
1893	230,070	586,260
1894	184,940	473,827
1895	169,885	382,526
1896	209,162	581,832
1897	242,163	630,408
1898	315,088	787,720
1899	309,600	774,000
1900	311,450	778,625
1901	340,275	850,687
1902	402,819	960,601
1903	495,893	1,117,541
1904	661,732	1,404,524
1905	931,917	1,993,915
1906	1,246,360	2,614,762
1907	1,591,579	3,836,286
1908	1,685,661	4,127,311
1909	1,994,741	4,838,109
1910	2,894,469	7,065,736
1911	1,511,036	3,979,264
1912	3,240,577	8,113,525
1913	4,014,755	10,418,941
1914	3,683,015	9,350,392
1915	3,360,818	8,283,079
1916	4,559,054	11,386,577
1917	4,736,368	14,153,685
1918	5,972,816	20,537,287
1919	4,933,660	18,205,205
1920	6,907,765	30,186,933
1921	5,909,217	27,246,514
1922	5,990,911	24,351,913
1923	6,854,397	28,018,303
1924	5,189,729	18,884,318
1925	5,869,031	20,021,484
1926	6,503,705	20,886,103
1927	6,934,162	21,982,058
1928	7,336,330	23,532,414
1929	7,150,693	22,928,182
1930	5,755,528	18,063,225
1931	4,564,015	13,342,675
1932	4,870,648	13,526,309
1933	4,718,788	12,307,258
1934	4,753,810	12,556,099
1935	5,462,894	14,094,795
Total	145,813,240	\$461,859,037

NOTE: Production quantities and values prior to 1919 refer to sales and colliery consumption. From 1919 to 1935 the mine output figures are given.

THE MINES BRANCH

ANNUAL CONSUMPTION OF COAL IN CANADA, 1902-1935

The following revised table is taken from the report issued by the Dominion Bureau of Statistics for the year 1935:

Year	Canadian*		Imported Coal Entered for Consumption†		Total Short tons	Per Capita
			From U.S.A.	From Great Britain		
	Short tons	%	Short tons	%		
1902	5,376,413	53.1	4,656,286	101,726	4,734,559	46.9
1903	6,005,735	47.3	6,520,931	184,583	6,678,450	52.7
1904	6,697,133	47.9	7,238,860	85,687	7,297,432	52.1
1905	7,032,661	49.4	7,423,738	89,510	7,515,266	49.6
1906	7,927,560	50.5	7,737,338	81,014	7,758,325	49.5
1907	8,617,352	45.0	10,388,697	84,225	10,549,503	55.0
1908	9,136,478	47.3	10,203,535	97,514	10,195,424	52.7
1909	8,913,376	47.9	9,805,253	67,671	9,711,826	52.1
1910	10,532,103	50.2	10,545,451	51,541	10,437,123	49.8
1911	9,822,749	40.5	14,510,129	48,963	14,424,949	59.5
1912	12,385,696	46.0	14,537,124	38,668	14,549,104	54.0
1913	13,430,158	42.6	18,145,769	37,825	18,132,387	57.4
1914	12,214,403	43.5	14,687,853	33,101	14,637,920	54.5
1915	11,500,480	48.1	12,450,796	15,098	12,406,212	51.9
1916	12,348,036	41.3	17,376,202	4,401	17,517,820	58.7
1917	12,313,603	37.2	20,848,009	9,451	20,810,132	62.8
1918	13,160,731	37.8	21,674,826	3,761	21,611,101	62.2
1919	11,611,168	40.3	17,292,913	344	17,236,269	59.7
1920	14,025,566	42.9	18,752,981	1,591	18,668,741	57.1
1921	12,715,734	41.1	18,300,081	765,980	18,258,387	58.9
1922	13,044,352	50.2	12,255,555	572,570	12,962,189	49.8
1923	15,070,962	41.8	20,417,239	317,112	20,967,971	58.2
1924	12,529,358	42.8	16,405,344	604,117	16,714,143	57.2
1925	12,125,290	42.6	15,744,957	287,299	16,331,971	57.4
1926	15,086,296	47.7	16,204,405	907,220	16,565,555	52.3
1927	15,944,983	46.7	17,266,434	807,220	18,177,303	52.3
1928	16,487,807	50.0	15,830,688	682,755	16,515,582	50.0
1929	16,387,461	48.0	16,780,452	843,502	17,724,132	52.0
1930	14,052,671	43.3	16,971,933	1,144,861	18,412,039	56.7
1931	11,682,779	47.7	11,793,798	987,442	12,828,327	52.3
1932	11,212,701	49.0	9,889,866	1,727,716	11,654,982	51.0
1933	11,456,273	51.5	8,865,935	1,942,875	10,868,962	48.5
1934	13,236,406	51.1	10,580,710	1,981,118	12,651,168	48.9
1935	13,306,303	53.1	9,618,518	1,822,500	11,735,835	46.9
1902	10,110,972	46.9	4,734,559	101,726	10,110,972	1.848
1903	12,684,185	52.7	6,678,450	184,583	12,684,185	2.212
1904	13,994,665	52.1	7,297,432	85,687	13,994,665	2.412
1905	15,249,067	49.6	7,515,266	89,510	15,249,067	2.381
1906	15,685,885	49.5	7,758,325	81,014	15,685,885	2.341
1907	19,166,855	55.0	10,549,503	84,225	19,166,855	2.947
1908	19,351,902	52.7	10,195,424	97,514	19,351,902	2.820
1909	18,625,202	52.1	9,711,826	67,671	18,625,202	2.682
1910	20,970,226	49.8	10,437,123	51,541	20,970,226	2.960
1911	24,247,698	59.5	14,424,949	48,963	24,247,698	3.365
1912	26,934,800	54.0	14,549,104	38,668	26,934,800	3.657
1913	31,582,545	57.4	18,132,387	37,825	31,582,545	4.196
1914	26,852,323	51.9	14,637,920	33,101	26,852,323	3.490
1915	23,906,692	58.7	12,406,212	15,098	23,906,692	3.041
1916	29,865,856	62.8	17,517,820	9,451	29,865,856	3.717
1917	33,123,735	62.2	20,810,132	9,451	33,123,735	4.049
1918	34,771,832	59.7	21,611,101	3,761	34,771,832	4.175
1919	28,847,437	57.1	17,236,269	344	28,847,437	3.402
1920	32,694,307	58.9	18,668,741	1,591	32,694,307	3.788
1921	30,974,121	49.8	18,258,387	765,980	30,974,121	3.524
1922	26,006,541	58.2	12,962,189	572,570	26,006,541	2.916
1923	36,038,933	57.2	20,967,971	317,112	36,038,933	4.000
1924	29,243,501	57.4	16,714,143	604,117	29,243,501	3.199
1925	28,457,261	52.3	16,331,971	287,299	28,457,261	3.062
1926	31,651,851	50.0	16,565,555	907,220	31,651,851	3.349
1927	34,122,286	52.0	18,177,303	807,220	34,122,286	3.541
1928	33,003,389	56.7	16,515,582	682,755	33,003,389	3.356
1929	34,111,593	52.3	17,724,132	843,502	34,111,593	3.402
1930	32,464,710	51.0	18,412,039	1,144,861	32,464,710	3.181
1931	24,511,106	48.5	12,828,327	987,442	24,511,106	2.362
1932	22,867,193	46.9	11,654,982	1,727,716	22,867,193	2.177
1933	22,265,235	48.9	10,868,962	1,942,875	22,265,235	2.085
1934	25,887,574	48.9	12,651,168	1,981,118	25,887,574	2.392
1935	25,042,138	46.9	11,735,835	1,822,500	25,042,138	2.287

*The sum of Canadian coal-mine sales, colliery consumption, coal supplied to employees and coal used in making coke, etc., less the tonnage of coal exported.

†Includes small tonnages from countries other than Great Britain and the United States. Deductions have been made to take account of foreign coal re-exported from Canada and bituminous coal ex-warehoused for ships' stores.

The following table shows the quantity of coke imported into Canada during the years 1934, 1935 and 1936 through ports in the Provinces, compiled from information received from the Dominion Bureau of Statistics:

Ports in Province of	1934	1935	1936
Prince Edward Island			
Nova Scotia	8,361	8,805	7,234
New Brunswick	464	55	24
Quebec	27,177	13,371	25,777
Central Ontario	864,030	469,657	538,576
Head of Lakes	21,817	26,539	22,543
Manitoba	11,091	12,748	15,427
Saskatchewan			
Alberta			
British Columbia	1,893	1,751	3,277
Total	934,833	532,926	612,858

Imports of Coke into Canada, by Countries, 1934, 1935 and 1936:

United States	901,249	511,663	579,893
Great Britain	33,270	9,606	9,854
Germany	314	4,595	22,549
Poland		4,276	
Belgium		2,786	562
Total	934,833	532,926	612,858

Quantity of coal in tons, entered for consumption for each year since 1919, through ports in the Provinces of Manitoba, Saskatchewan, Ontario, Alberta, British Columbia and Yukon.

BITUMINOUS COAL

Year	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia & Yukon	Total Canada
1919	7,641,682	483,991	59,253	1,063,793	9,248,719	62,746	1,406	1,131	6,700	12,010,490
1920	10,261,237	571,879	111,957	1,391,709	12,336,903	43,547	535	607	13,128	15,902,632
1921	8,605,872	659,763	127,956	1,316,155	10,709,746	76,833	2,127	1,820	17,081	13,536,950
1922	7,424,171	445,019	68,082	1,517,250	9,454,522	74,848	1,484	1,147	13,966	11,563,467
1923	11,621,859	619,037	95,439	1,731,667	14,068,002	112,134	1,607	1,110	17,919	17,317,468
1924	8,763,676	403,388	70,259	1,500,525	10,737,848	143,607	2,422	1,209	25,049	12,613,982
1925	9,100,462	286,984	81,173	1,497,264	9,884,710	147,758	1,732	1,175	40,286	13,013,323
1926	10,531,095	199,908	83,182	965,105	11,696,108	149,374	1,887	1,515	32,292	13,802,242
1927	11,572,678	221,694	90,864	1,273,691	13,158,927	142,860	2,131	1,324	22,648	15,178,640
1928	10,539,408	194,718	103,594	1,481,928	12,318,948	97,002	2,111	1,360	18,682	13,966,183
1929	11,232,027	143,889	100,141	1,591,656	13,067,713	38,801	2,477	1,327	18,326 (a)	14,585,215 (b)
1930	10,421,748	165,499	70,403	1,297,939	11,955,589	24,898	1,816	1,351	8,886 (c)	13,345,308 (d)
1931	8,553,736	86,810	63,738	606,279	9,313,563	7,041	1,535	912	2,308 (e)	10,347,280 (f)
1932	6,667,927	62,019	48,915	691,831	7,670,072	12,298	1,459	830	3,582 (n)	8,532,318 (k)
1933	7,057,634	74,334	30,108	482,206	7,623,634	13,213	1,327	998	26,077 (q)	8,427,656 (o)
1934	8,472,143	126,671	37,085	602,510	9,238,409	12,103	1,235	1,302	2,307 (r)	10,268,945
1935	8,032,739	6,033	53,145	591,810	8,683,727	9,918	952	1,136	3,722 (s)	9,549,457
1936	8,450,980	156,229	67,784	688,950	9,363,943	14,101	847	1,205	3,524 (v)	10,202,438

ANTHRACITE COAL

Year	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia & Yukon	Total Canada
1919	2,977,913	119,234	559	346,442	3,444,148	12,906	206	66	136	4,972,283
1920	2,943,134	69,206	2,648	226,476	3,221,464	17,509	254	517	75	4,912,964
1921	2,809,189	62,782	138	198,108	3,070,217	33,473	254	66	251	4,567,370
1922	1,586,924	21,507	12	36,018	1,644,461	14,715	231	.....	1,261	2,693,957
1923	3,061,779	28,229	429	54,329	3,144,766	55,856	2,291	.....	174	5,167,881
1924	2,599,568	4,775	237	84,513	2,689,093	34,222	1,720	.....	687	4,183,594
1925	2,203,281	37	170	50,731	2,254,019	34,396	702	30	246	3,798,744
1926	2,458,674	.....	56	60,810	2,519,494	17,990	464	.....	5,202	4,242,932
1927	2,123,515	.....	51	79,293	2,202,849	15,865	484	.....	3,812	4,063,619
1928	2,179,022	.....	42	57,494	2,236,558	10,130	579	.....	2,241	3,737,333
1929	2,246,063	352	303	52,369	2,299,087	9,180	365	.....	2,597	4,019,917 (g)
1930	2,080,457	.....	224	45,241	2,125,922	8,323	387	.....	1,123	4,256,090 (h)
1931	1,615,643	.....	.....	18,302	1,633,945	3,695	.....	.....	33	3,178,143 (i)
1932	1,250,755	.....	3	12,677	1,263,435	3,800	.....	.....	702	3,138,157 (j)
1933	1,129,041	.....	8	8,742	1,137,791	5,669	57	75	3,657	3,035,613 (p)
1934*	1,374,881	.....	3,030	7,934	1,385,845	6,086	49	.....	1,600	3,537,309
1935*	1,370,119	.....	19	9,455	1,379,593	5,852	58	.....	1,151	3,431,318 (w)
1936*	1,460,522	.....	135	16,350	1,477,007	5,884	.....	.....	.....	3,561,587 (x)

*These figures show the total imports and not the tonnages "entered for consumption."

- (a) Includes 11 tons imported in February, 50 tons in July and 6 tons in August into the Yukon Territory.
- (b) Includes 115,368 tons of bituminous coal from Great Britain, also 76 tons of bituminous coal from Newfoundland. Durrig 1929 there were 1,896 tons of lignite coal imported from the United States into Manitoba, 41 tons were imported from the United States into Saskatchewan, also 12,171 tons from the United States into British Columbia, making a total of 14,108 tons of lignite coal imported into Canada from the United States.
- (c) Includes imports into the Yukon Territory of 2 tons in April and 5 tons in June.
- (d) Consists of 13,199,076 tons imported from the United States, 146,199 tons imported from Great Britain and 33 tons imported from Newfoundland.
- (e) Includes imports into the Yukon Territory of 6 tons in March and 4 tons in July.
- (f) Consists of 10,224,982 tons imported from the United States, 122,298 tons imported from Great Britain.
- (g) Includes 728,438 tons of anthracite imported from Great Britain, 117,404 tons from Russia and 112 tons from Japan.
- (h) Consists of 2,955,954 tons imported from United States, 996,127 tons imported from Great Britain, 11,480 tons imported from Germany, 291,407 tons imported from Russia and 1,122 tons imported from French East Indies.
- (i) Consists of 2,236,423 tons imported from the United States, 876,364 tons imported from Great Britain, 60,762 tons imported from Germany and 4,592 tons imported from French East Indies.
- (k) Consists of 8,170,248 tons imported from the United States, 362,068 tons imported from Great Britain, and 2 tons imported from Newfoundland.
- (m) Consists of 1,685,532 tons imported from the United States, 1,399,086 tons imported from Great Britain, 52,189 tons imported from Germany, 650 tons imported from Belgium and 700 tons imported from the French East Indies.
- (n) Includes 4 tons imported in June, into the Yukon Territory.
- (o) Consists of 8,089,451 tons imported from the United States, 338,061 tons imported from Great Britain and 144 tons imported from Germany.
- (p) Consists of 1,429,829 tons imported from the United States, 1,605,776 tons imported from Great Britain, 6 tons imported from China and 2 tons imported from Alaska.
- (q) Includes imports into the Yukon Territory of 5 tons in May and 2 tons in October.
- (r) Includes imports into the Yukon Territory of 5 tons in May, 20 tons in June and 12 tons in September.
- (s) Includes imports into the Yukon Territory of 10 tons in July and 10 tons in October.
- (t) Consists of 9,936,759 tons imported from the United States, 331,517 tons imported from Great Britain, 50 tons imported from Germany, 24 tons imported from Newfoundland, 300 tons imported from Japan, 280 tons imported from Norway, and 15 tons imported from Sweden.
- (u) Consists of 9,168,428 tons imported from the United States, 380,645 tons imported from Great Britain, 43 tons imported from Alaska, 285 tons imported from Norway, 55 tons imported from Estonia, and 1 ton imported from Poland.
- (v) Includes imports into the Yukon Territory of 4 tons in April, 3 tons in May, 45 tons in June, 7 tons in October and 2 tons in November.
- (w) Consists of 1,670,085 tons imported from the United States, 1,454,521 tons imported from Great Britain, 205,045 tons imported from Germany, 67,220 tons imported from Belgium and 54,447 tons imported from French Indo-China.
- (x) Consists of 1,685,848 tons imported from the United States, 1,331,279 tons imported from Great Britain, 359,994 tons imported from Germany, 44,543 tons imported from Belgium, 122,572 tons imported from French Indo-China, 16,231 tons imported from Netherlands and 1,120 tons imported from China.

Imports of Coal into Ontario, Manitoba, Saskatchewan, Alberta, British Columbia, Yukon and Canada, by months during 1936 (short tons):

Month	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Total Man., Sask., Alta., B.C., and Yukon	Total Canada
January	262,839		4,290		267,129	1,197	40	37	83		1,357	293,145
February	273,989		2,210		276,199	1,365	30	65	326		1,259	302,828
March	303,141		5,256		308,397	1,931	69	171	192		1,797	342,077
April	328,480		6,819		335,299	1,931	37	104	640	4	2,716	361,892
May	317,046	662	3,238	71,436	892,382	642	214	137	52	3	1,048	958,513
June	1,043,905	9	5,229	62,453	1,111,596	592	37	132	267	45	1,073	1,234,556
July	794,913	49,207	3,530	82,078	929,728	1,159	178	99	236		1,672	1,049,082
August	944,368	69,156	5,156	113,560	1,132,240	664	68	140	256		1,128	1,219,517
September	826,138	23,370	10,435	122,620	982,563	1,430	74	31			1,495	1,061,102
October	1,025,543	2,572	7,557	72,230	1,107,902	2,641	74	36	192	7	2,950	1,207,030
November	1,062,358	8,208	8,006	109,315	1,187,887	805	32	142	1,090	2	2,071	1,291,828
December	768,260	3,045	6,058	55,258	832,621	837	34	111	129		1,111	880,868
Total	8,450,980	156,229	67,784	688,950	9,363,943	14,101	847	1,205	3,463	61	19,677	*10,202,438

*Consists of 10,042,127 tons imported from the United States, 149,905 tons imported from Great Britain, 9,421 tons imported from Germany, 361 tons imported from Norway, 124 tons imported from Denmark, 45 tons imported from Sweden, 35 tons imported from Netherlands, 286 tons imported from Newfoundland, and 134 tons imported from Estonia.

ANTHRACITE COAL

Month	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Total Man., Sask., Alta., B.C., and Yukon	Total Canada
January	121,622		4		121,626	633					633	159,049
February	179,838		7		179,845	780					780	226,745
March	121,545				121,545	563					563	163,595
April	52,139			6,199	52,139	279					279	129,032
May	147,774				153,973	352			30		382	403,002
June	136,111				136,111	173					173	449,148
July	75,987			6,115	82,102	576					576	367,373
August	109,401				109,401	359	31				390	339,242
September	109,849			3,136	112,985	701	27				728	336,474
October	150,169		33		150,202	445					445	430,914
November	116,356		77	900	117,333	518					518	305,917
December	139,731		14		139,745	505			1,121		1,626	251,096
Total	1,460,522		135	16,350	1,477,007	5,884	58	1,205	3,463	61	19,677	*10,202,438

†Consists of 1,685,848 tons imported from the United States, 1,331,279 tons imported from Great Britain, 359,994 tons imported from Germany, 44,543 tons imported from Belgium, 122,572 tons imported from French Indo-China, 16,231 tons imported from Netherlands, and 1,120 tons imported from China.

MINERAL PRODUCTION OF ALBERTA, 1935 AND 1936

Prepared in the Mining, Metallurgical and Chemical Branch, Ottawa, Canada.

	1935		1936†	
	Quantity	Value	Quantity	Value
*Gold, fine ounces	150	\$ 5,279	109	\$ 2,253
†Exchange equalization				1,565
Silver, fine ounces	16	10	9	4
Bituminous sands, short tons	40	160		
Coal, short tons	5,462,894	14,094,795	5,696,763	14,657,404
Natural Gas, M cubic feet	16,060,349	4,113,436	16,650,000	4,268,000
Petroleum, barrels	1,263,510	3,102,227	1,310,000	3,214,000
Cement, barrels	219,555	436,914	243,534	482,197
Clay products		326,679		310,131
Lime, short tons	6,584	57,108	9,129	78,259
Sand and Gravel, short tons	653,511	146,092	639,907	324,189
Stone, short tons	2,242	6,981	13,876	26,188
Total		\$22,289,681		\$23,364,390

*Gold valued at the standard rate of \$20.671834 per ounce.

†Difference between the standard rate and the average value of gold during the year.

‡Subject to revision.

Particulars with reference to the Coal-mining Industry in the Province of Alberta during the year ending December 31, 1936:

SUMMARY OF STATISTICS

Tonnage stripped by farmers under domestic permits	2,603
Number of short tons of coal produced	5,696,375
Number of short tons of briquettes produced	21,015
Number of short tons of coke produced	65,239
Number of short tons of shale produced	24,588
Number of coal-mines in operation during the year	305
Number of shale pits in operation during the year	5
Number of mines opened during the year	17
Number of mines re-opened during the year	11
Number of mines closed during the year	28
Number of mines abandoned during the year	30
Number of mines in operation at December 31, 1936	277
132 mines or 43.28% of the total operating produced .91% of the output.	
81 mines or 26.56% of the total operating produced 2.95% of the output.	
14 mines or 4.59% of the total operating produced 1.71% of the output.	
45 mines or 14.75% of the total operating produced 20.61% of the output.	
18 mines or 5.90% of the total operating produced 22.7% of the output.	
4 mines or 1.31% of the total operating produced 8.8% of the output.	
7 mines or 2.29% of the total operating produced 21.68% of the output.	
2 mines or .66% of the total operating produced 8.32% of the output.	
2 mines or .66% of the total operating produced 12.32% of the output.	

ANNUAL REPORT, 1936

17

Average number of persons employed below ground	5,940
Average number of persons employed above ground	2,170
Number of separate accidents causing loss of life	11
Number of deaths caused by accidents above ground	2
Number of deaths caused by accidents below ground	9
Number of serious accidents above ground	9
Number of serious accidents below ground	70
Number of slight accidents above ground	9
Number of slight accidents below ground	92
Total purchased electrical power (kilowatt hours)	24,912,243
Number of prosecutions instituted	20
Number of Provisional Certificates (overman) issued in 1936	162
Number of Certificates of Competency as Coal-miners issued in 1936	365
Number of Third Class Certificates issued in 1936	21
Number of Second Class Certificates issued in 1936	12
Number of First Class Certificates issued in 1936	3
Number of Mine Surveyor's Certificates issued in 1936	2
Total number of Third Class Certificates issued to Dec. 31, 1936	1,337
Total number of Second Class Certificates issued to Dec. 31, 1936	446
Total number of First Class Certificates issued to Dec. 31, 1936	241
Total number of Mine Surveyors' Certificates issued to Dec. 31, 1936	189
Total number of Interchange First Class Certificates issued to Dec. 31, 1936	5
Total number of Certificates of Competency as Coal-miners issued to Dec. 31, 1936	14,310

In the following tables the short ton of 2,000 lbs. is used in all cases.

Year	Output in tons for N.W.T. (Alta. & Sask.)	Output in tons for Alberta
1901	346,649	
1902	510,674	
1903	622,939	
1904	782,931	
1905		811,228
1906		1,385,000
1907		1,834,745
1908		1,845,000
1909		2,174,329
1910		3,036,757
1911		1,694,564
1912		3,446,349
1913		4,306,346
1914		3,821,739
1915		3,434,891
1916		4,638,604
1917		4,863,414
1918		6,148,620
1919		5,022,412
1920		6,908,923
1921		5,937,195
1922		5,976,432
1923		6,866,923
1924		5,203,713
1925		5,883,394
1926		6,508,908
1927		6,936,780
1928		7,334,179
1929		7,147,250
1930		5,755,911
1931		4,564,290
1932		4,870,030
1933		4,714,784
1934		4,748,848
1935		5,462,973
1936		5,696,375

THE MINES BRANCH

PARTICULARS OF WORK DONE IN SHALE MINES IN THE
PROVINCE DURING 1936

Output of shale in tons, used for making bricks	24,588
Number of shifts worked	8,825
Average number of men employed	44
Explosives used (lbs.), 40% dynamite	2,625
Number of shots fired, using fuse	1,611
Total number of bricks made	8,963,384
Total number of bricks put to stock	805,844
Total number of bricks lifted from stock	103,500
Bricks sold for use in: Alberta	4,704,270
British Columbia	670,810
Saskatchewan	1,968,160
Manitoba	620,300
Ontario	75,000
United States	13,500
Total	8,054,040

PARTICULARS OF WORK DONE BY FARMERS STRIPPING COAL
UNDER DOMESTIC PERMIT

Tonnage	2,603
Number of days worked during the year	100
Number of men employed during the year	142
Total number of shifts worked	1,129
Total number of permits issued	58

The above coal was stripped for Domestic use only and not for sale.

CLASSIFICATION OF OUTPUT DURING THE YEARS 1901 TO 1936 INCLUSIVE

Year	Domestic	Domestic and Bituminous	Sub-Bituminous	Bituminous	Anthracite	Coal used in coke product, m	Briquettes	Coke
*1901		331,907			14,742			
*1902		494,087			16,587			
*1903		617,754			5,185			
*1904		759,568			23,363			
*1905		972,686			43,653			
1906					235,597	71,292		46,640
1907	602,780			546,623		103,930	49,585	69,844
1908	639,335			939,295	256,115	112,887	36,261	73,782
1909	584,334			1,001,571	249,095	128,397	87,812	75,657
1910	763,673			1,197,399	213,257	148,104	108,996	121,578
1911	878,011			1,896,961	261,785	196,249	88,200	35,984
1912	964,700			649,745	80,119	61,591	90,000	105,684
1913	1,341,389			1,926,371	178,589	170,818	130,861	65,167
1914	1,763,225			2,374,401	168,720	104,012	109,082	29,058
1915	1,697,401			1,953,367	170,971	44,249	83,180	23,826
1916	1,682,922			1,626,237	125,732	38,878	107,959	41,950
1917	2,172,801			2,335,259	140,544	67,105	93,818	31,630
1918	2,537,829			2,206,868	118,717	51,905	100,470	32,858
1919	3,035,061			2,982,334	131,225	53,462	70,033	
1920	2,611,009			2,325,787	85,616		101,693	
1921	3,359,309			3,419,021	130,594		62,466	
1922	2,943,141			2,897,380	40,417		33,663	
1923	3,086,669			3,245,313	107		39,638	
1924	3,161,741		635,073	1,521,288			791	
1925	3,096,660		459,869	2,214,273			11,381	173
1926	3,156,359		585,765	2,451,200			20,649	
1927	3,180,029		490,371	2,888,508			24,768	
1928	3,357,171		595,130	2,994,419		287	28,167	
1929	3,378,200		740,498	3,215,481			24,111	
1930	3,385,749		668,108	3,093,393			15,102	2,183
1931	2,246,544		603,331	2,278,490			13,582	49,279
1932	2,576,831		471,389	1,846,357			14,935	59,703
1933	2,434,047		559,479	1,733,720			15,906	63,428
1934	2,295,566		554,141	1,726,596			18,812	65,239
1935	2,647,912		537,542	1,915,740			21,015	
1936	2,841,231		566,436	2,248,625				
			566,436	2,288,658				

*Includes output from Alberta and Saskatchewan. Previous to 1922 sub-bituminous was included in bituminous coal.

During the year 1909 a strike affecting all the larger mines in the Province, lasted for a period of three months.
 During the year 1911 a strike affecting all the larger mines in the Province, lasted for a period of eight months.
 During the year 1917 a strike affecting all the larger mines in the Province, lasted for a period of three months.
 During the year 1919 a strike affecting all the larger mines in the Province, lasted for a period of three months.
 During the year 1922 a strike affecting all the larger mines in the Province, lasted for a period of five months.
 During the year 1924 a strike affecting all the larger mines in the Province, lasted for a period of six and one-half months.

ANNUAL REPORT, 1936

21

How the total output of DOMESTIC Coal from the Province was disposed of by areas during 1936:

Areas	Sold for Consumption in					Total Sales	Used under Colliery R.R.	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output for year including waste put to stock and lifted from stock or waste.
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	United States						
Ardley	22,714						925	406	78	99		29,216
Big Valley	2,890		5,132						28			2,918
Brooks	9,377		291									9,668
Camrose	51,999	32	9,581	1,337			1,120	2,145	1,200	1,240	843	65,331
Carbon	77,684	5,611	19,614	6,453	36	148	525	1,998	1,804	4,504		108,369
Castor	41,968		99		169		220	188	2,692	20	10	45,307
Champion	21,228						21,228					22,160
Drumheller	252,297	38,364	895,876	190,638	37,833	3,305	17,520	9,096	9,302	11,697	2,629	1,439,905
Edmonton	516,768	388	12,392	3,000	97		11,827	2,214	322	3,427	567	543,014
Gleichen	3,886											9,886
Halcourt	3,399						29	133	3	85		3,479
Lethbridge	156,038	28,590	139,541	12,206	1,243	8,665	4,450	2,613	5,475	5,084	2,173	351,564
Magrath	836											856
Milk River	5,067								194			5,261
Pakan	823											823
Parkwyl	3,126											3,660
Pembina	27,336	2,244	18,131	2,401	67	100	3,237	80	454			53,948
Redcliff	10,570		22,383	2,203		134		925	597	1,255		35,971
Rochester	2,101											2,256
Saskatchewan	44								155			44
Spence	18,979		15,982	9,564			607					47,305
Tabor	9,952		458	206					2,173			12,588
Tofield	17,806		16,181	5,955			2,250		1,978	6		42,845
Wetaskiwin	1,781							51	602			1,791
Whitecourt	118								10			1,153
No Area	2,843							1	69			2,913
Total	1,267,651	75,229	1,155,661	233,963	39,445	12,352	42,710	846	19,957	27,056	6,222	2,841,231

How the total amount of SUB-BITUMINOUS Coal was disposed of during 1936:

Areas	Sold for consumption in					Sold to Railroad Companies	Total Sales	Used under Colliery Boilers	Used by Colliery R.R.	Used making Briquettes	Used making Coke	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output for year including put to stock and waste but not lifted from stock or waste
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	United States										
Coalspur	24,068	31,589	7,134	55,681	11,578	...	211,196	341,246	17,507	4,927	...	1,558	25,600	1,824	248	388,766
Morley	123	...	...	...	...	...	123	123	...	...	...	...	...	50	...	123
Pekisko	4,400	...	...	...	...	...	4,400	196	...	...	...	50	409	...	...	5,005
Pincher	1,617	32	...	...	...	...	1,649	22	...	...	...	...	424	...	...	2,095
Prairie Creek	10,978	6,605	1,605	6,932	4,754	...	91,279	122,153	4,428	...	...	1,233	...	261	...	127,553
Saunders	6,312	460	12,015	13,992	5,514	...	...	38,283	4,591	...	...	552	...	492	...	42,944
Total	47,498	38,686	20,754	76,605	21,846	...	302,475	507,864	26,744	4,927	...	3,393	26,433	2,627	248	566,486

BITUMINOUS

Cascade	3,265	1,258	4,139	16,470	32	...	105,577	130,741	15,750	469	...	4,444	133	4,344	...	166,665
Crowsnest	28,802	129,755	50,111	39,509	4,563	15,045	892,119	1,159,904	23,975	670	...	27,469	26,581	25,290	175	1,310,487
Mountain Park	4,996	...	536	84,193	...	...	530,807	620,532	34,577	...	...	30	...	...	...	655,139
Nordegg	4,478	...	7,529	...	...	...	138,591	150,598	5,844	...	...	946	...	1,021	...	156,367
Total	41,541	131,013	62,315	140,172	4,595	15,045	1,667,094	2,061,775	80,146	1,139	...	32,889	26,714	30,655	175	2,288,658

How the total output of COAL from the Province was disposed of by months during 1936:

[illegible]

THE MINES BRANCH

How the total output of DOMESTIC Coal was disposed of by months during 1936:

Months	Sold for Consumption in						Total Sales	Used under Colliery Boilers	Used by R. R. Colliery	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output for Year including put to stock and lifted from stock or waste
	Alberta	British Columbia	Saskat- chewan	Manitoba	Ontario	United States								
January	172,924	8,768	162,035	41,603	6,412	1,785	393,527	6,150	134	2,945	2,656	2,920	.....	402,492
February	215,180	11,672	189,724	42,088	6,777	3,131	468,572	6,400	170	5,355	3,337	1,759	.....	482,075
March	86,689	2,551	56,674	6,908	1,017	425	154,264	4,388	85	429	917	3,961	.....	156,122
April	61,879	3,377	40,705	3,485	580	331	110,357	2,164	32	246	463	2,682	453	110,127
May	35,656	1,469	14,509	3,469	189	.....	55,292	1,697	20	119	269	3,715	468	53,214
June	29,519	1,431	15,194	3,946	195	.....	50,285	1,780	4	1,586	215	3,433	563	49,874
July	32,825	1,049	18,617	3,628	647	.....	56,766	1,898	26	20	1,428	2,891	1,642	55,605
August	48,689	2,610	47,581	4,915	534	197	104,526	2,315	30	599	1,874	1,079	318	107,947
September	118,791	9,190	139,459	15,636	3,189	1,606	287,871	3,693	104	2,095	4,753	994	105	297,417
October	171,452	13,330	225,954	47,615	7,505	1,275	467,131	3,867	92	3,722	5,383	650	200	479,345
November	135,701	10,873	107,726	23,247	6,198	1,911	285,656	3,822	69	1,083	3,494	2,341	50	291,733
December	158,346	8,909	137,483	37,423	6,202	1,691	350,054	4,536	80	1,758	2,267	992	2,423	355,280
Total	1,267,651	75,229	1,155,661	233,963	39,445	12,352	2,784,301	42,710	846	19,957	27,056	27,417	6,222	2,841,231
Percentage of Total Sales	45.53	2.70	41.51	8.40	1.42	.44								

How the total output of SUB-BITUMINOUS Coal was disposed of by months during 1936:

Months	Sold for Consumption in					Sold to Railroad Companies	Total Sales	Used under Colliery R.R.	Put to stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output for year including put to stock and lifted from stock or waste
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario								
January	4,798	4,461	2,108	14,657	2,659	30,144	58,827	2,919	458	159	2,498		64,801
February	5,805	8,051	3,426	10,681	2,413	28,797	59,173	2,980	504	275	2,368		65,300
March	6,724	2,043	755	3,269	596	28,875	42,262	2,403	664	56	2,358		47,743
April	1,422	1,376	395	1,414	95	25,284	29,986	1,998	402	90	2,315		34,431
May	541	489	281	1,161	64	21,156	23,692	1,587	338	92	1,557		27,201
June	1,155	323	747	698	588	15,910	19,421	1,737	308	113	1,057		22,204
July	1,054	791	791	1,398	490	10,173	14,607	1,398	259	98	457		16,767
August	2,386	1,556	987	3,058	1,012	21,104	30,103	1,787	180	253	2,150	248	33,975
September	5,155	3,559	3,020	6,144	2,673	26,942	47,483	2,276	343	292	2,521		52,446
October	6,645	4,058	4,021	11,746	4,865	29,901	61,236	2,651	437	449	3,297		67,834
November	4,889	5,650	1,618	11,110	3,490	34,207	60,964	2,314	483	1,031	3,091		67,669
December	6,924	6,329	2,605	11,269	2,901	29,982	60,010	2,694	531	485	2,764		66,115
Total	47,498	38,686	20,754	76,605	21,846	302,475	507,861	26,744	4,927	3,393	26,433	248	566,486
Percentage of Total Sales	9.35	7.62	4.08	15.08	4.31	59.56							

Amount of COAL sold during the years 1915 to 1936 inclusive for consumption in:

Year	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	North-West Territories	Quebec	United States	To Railroads	Total
1915	2,129,130	54,860	695,898	64,816				25,047		2,969,751
1916	2,866,670	86,413	1,007,765	97,265				61,092		4,119,205
1917	2,813,413	76,397	1,139,771	249,872				93,081		4,372,534
1918	3,440,154	101,189	1,372,439	511,168	629			133,276		5,558,855
1919	2,991,110	95,461	1,115,329	314,290	308			121,212		4,637,710
1920	1,647,202	128,850	1,310,146	600,962	13,911		30	152,610	2,516,555	6,371,266
1921	1,415,861	116,089	1,294,441	495,388	9,898			133,823	2,023,204	5,488,704
1922	1,443,942	107,920	1,371,249	520,518	21,573		102	105,514	2,076,291	5,647,109
1923	1,382,788	108,326	1,223,454	553,649	52,334			83,557	3,110,121	6,514,219
1924	1,431,327	114,186	1,189,788	510,407	16,525			39,142	1,613,574	4,914,949
1925	1,440,032	117,037	1,297,653	509,655	28,831			40,507	2,139,716	5,573,431
1926	1,325,290	127,858	1,296,181	591,267	74,559		221	48,216	2,706,440	6,170,032
1927	1,508,089	187,028	1,427,904	612,542	22,680			45,160	2,759,765	6,653,168
1928	1,409,475	262,198	1,511,141	605,125	44,265			52,265	3,054,239	6,938,708
1929	1,446,555	238,840	1,455,213	588,647	55,647		33	51,625	2,923,827	6,758,075
1930	1,234,382	227,385	1,221,542	541,537	29,784			32	2,120,237	5,419,190
1931	1,020,694	171,610	905,574	442,761	27,036		100	30,434	1,668,451	4,266,660
1932	1,134,311	136,188	1,097,382	497,006	20,583		135	27,366	1,619,921	4,532,892
1933	1,123,357	120,911	1,052,910	449,681	39,437		32	18,449	1,500,061	4,304,838
1934	1,087,898	127,638	986,639	391,132	55,947	31		13,739	1,687,850	4,350,874
1935	1,246,959	221,758	1,120,816	435,813	64,659			24,712	1,960,555	5,075,272
1936	1,356,690	244,928	1,238,730	450,740	65,886			27,397	1,969,569	5,353,940

NOTE: Previous to 1920 Railroad Coal was included in Sales in Alberta.

THE MINES BRANCH

Coal produced by years from 1932 to 1936 inclusive:

DOMESTIC COAL FIELD

Areas	1932	1933	1934	1935	1936
Ardley	18,409	20,099	21,549	25,565	29,216
Big Valley	4,738	4,407	2,056	3,494	2,918
Brooks	6,622	6,614	7,423	8,040	9,668
Camrose	42,376	37,454	39,435	57,466	65,331
Carbon	88,837	100,549	87,856	95,424	108,369
Castor	37,043	34,694	31,450	34,920	45,307
Champion	17,296	20,541	19,422	20,836	22,160
Drumheller	1,245,474	1,112,204	1,033,000	1,261,239	1,439,905
Edmonton	454,293	477,791	452,019	493,263	543,014
Gleichen	5,260	4,662	6,707	9,165	9,886
Halcourt	2,275	2,873	3,040	3,738	3,479
Lethbridge	387,222	335,166	312,677	349,676	351,564
Magrath	1,808	2,013	2,002	1,282	856
Milk River	4,051	5,295	4,796	4,485	5,261
Pakan	195				823
Pakowki	2,717	2,602	2,252	2,781	3,660
Pembina	99,051	101,684	70,964	72,149	53,948
Redcliff	24,045	32,267	45,938	34,149	35,971
Rochester		1,348	1,033	1,467	2,256
Sexsmith					44
Sheerness	24,726	27,290	67,942	91,024	47,305
Stevenville	136	100			
Taber	14,387	15,813	16,549	14,669	12,588
Tofield	95,637	88,212	66,003	59,426	42,845
Wetaskiwin	180	170	58	728	1,791
Whitcourt		44		67	153
No Area	53	155	1,395	2,859	2,913
Total	2,576,831	2,434,047	2,295,566	2,647,912	2,841,231

SUB-BITUMINOUS COAL FIELD

Coalspur	452,532	427,485	410,108	413,486	388,766
Morley					123
Pekisko	1,527	1,573	2,881	4,298	5,005
Pincher	2,729	1,983	1,809	1,405	2,095
Prairie Creek	66,784	84,765	88,260	110,192	127,553
Saunders	35,907	38,335	34,484	37,055	42,944
Total	559,479	554,141	537,542	566,436	566,486

BITUMINOUS COAL FIELD

Cascade	169,328	124,607	161,869	152,925	166,665
Crownsnest	714,352	876,448	991,233	1,297,404	1,310,487
Mountain Park	711,383	584,430	623,231	651,268	655,139
Nordegg	138,657	141,111	139,407	147,028	156,367
Total	1,733,720	1,726,596	1,915,740	2,248,625	2,288,658

Total output of DOMESTIC COAL by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley	3,998	4,532	1,329	864	37	881	638	1,620	3,985	4,934	3,435	2,963	29,216
Big Valley	1,556	467	284	103	52	26	24	32	153	490	382	349	2,918
Brooks	1,022	770	212	318	91	127	162	447	1,735	2,711	1,266	807	9,668
Canrose	9,729	10,967	4,528	2,999	1,211	1,330	1,040	1,591	5,256	9,359	8,182	9,139	65,331
Carbon	13,368	16,389	5,684	4,566	3,431	2,136	2,370	5,762	11,932	17,414	12,652	12,665	108,369
Castor	6,027	6,946	3,651	1,174	280	277	351	747	4,970	9,871	6,288	4,725	45,307
Champion	2,303	2,705	1,362	1,273	594	583	755	1,474	3,430	3,535	2,082	2,064	22,160
Drumheller	210,504	264,334	56,965	44,505	15,252	14,322	19,079	49,558	159,454	275,394	137,093	193,445	1,439,905
Edmonton	81,228	92,390	40,811	27,920	18,373	14,224	15,012	17,400	39,852	61,995	57,380	76,429	543,014
Gleichen	1,098	1,352	607	472	185	228	221	468	1,476	1,822	1,013	944	9,886
Halcourt	713	552	260	52	6	23	9	75	102	329	549	809	3,479
Lethbridge	38,360	47,937	23,220	15,235	7,218	7,540	7,727	21,053	46,061	63,507	41,675	32,031	351,564
Magrath	36	85	135	82	7	8	39	47	82	122	139	74	856
Milk River	340	427	323	208	83	113	104	295	1,362	1,103	698	172	5,261
Pakan	583	521	280	195	203	11	258	147	650	602	230	62	823
Pakowki	501	12,215	6,662	3,177	2,239	2,885	1,950	1,829	2,285	3,025	2,924	3,309	3,660
Pembina	11,448	5,284	2,211	948	858	49	942	1,276	4,706	6,097	4,508	4,182	53,948
Redcliff	4,910	499	215	39	39	39	39	1,276	4,706	6,097	4,508	4,182	35,971
Rochester	507	499	215	39	39	39	39	1,276	4,706	6,097	4,508	4,182	2,256
Saxsmith	7,893	6,355	4,149	3,345	821	2,200	1,771	956	3,765	7,481	4,598	3,971	44
Stearness	1,328	1,751	784	503	313	298	214	628	2,222	2,318	1,132	1,097	47,305
Taber	5,061	4,689	1,905	1,996	1,793	2,609	2,928	2,393	3,847	6,599	4,685	4,360	12,588
Tofield	347	390	160	35	4	4	11	15	69	185	189	386	42,845
Wetaskiwin	29	30	19	3	128	128	128	134	23	286	16	50	1,791
Whitecourt	603	508	366	154	154	154	154	134	23	286	283	428	2,913
No Area													
Total	402,492	482,075	156,122	110,127	53,214	49,874	55,605	107,947	297,417	479,345	291,733	355,280	2,841,231

Total output of SUB-BITUMINOUS COAL by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur	44,717	46,436	33,478	24,628	17,713	12,388	6,888	21,799	35,776	47,333	49,002	48,608	388,766
Morley	701	672	458	198	218	120	412	524	397	360	449	99	123
Pekisko	237	215	215	117	59	75	64	83	292	336	184	218	5,005
Pincher	13,582	13,023	11,477	8,920	8,289	8,277	8,467	9,584	10,074	11,720	13,078	11,062	2,095
Prairie Creek	5,564	4,954	2,115	568	922	1,344	936	1,985	5,907	8,085	4,857	5,707	127,553
Saunders													42,944
Total	64,801	65,300	47,743	34,431	27,201	22,204	16,767	33,975	52,446	67,834	67,669	66,115	566,486

Total output of BITUMINOUS COAL by areas during each month:

Cascade	16,601	17,126	11,988	11,752	11,476	11,472	11,595	11,676	16,220	15,712	14,178	16,869	166,665
Crownsnest	88,623	105,676	96,687	97,281	110,766	100,042	121,782	106,660	129,024	135,302	115,834	102,810	1,310,487
Mountain Park	56,510	53,222	51,465	47,018	42,083	43,949	37,333	51,700	62,918	75,085	57,639	76,217	655,139
Nordeggs	14,487	18,120	18,589	9,836	9,161	8,084	7,663	7,498	10,068	17,781	20,102	14,978	156,367
Total	176,221	194,144	178,729	165,887	173,486	163,547	178,373	177,534	218,230	243,880	207,753	210,874	2,288,658

Total output of COAL, COKE AND BRIQUETTES during the year:

Coal	643,514	741,519	382,594	310,445	253,901	235,625	250,745	319,456	568,093	791,059	567,155	632,269	5,696,375
Coke	5,636	5,195	5,681	5,291	5,327	5,521	5,389	5,551	5,106	5,651	5,361	5,530	65,239
Briquettes	2,884	3,122	1,114	789	523	519	386	490	2,390	3,479	2,541	2,778	21,015

Total Sales of SUB-BITUMINOUS COAL for consumption by Railroad Companies:

Coalspur	22,156	20,868	20,863	17,283	13,152	7,896	2,177	13,096	19,730	23,731	26,132	24,112	211,196
Prairie Creek	7,983	7,929	8,012	8,001	8,004	8,014	7,996	8,008	7,212	6,170	8,075	5,870	91,279
Total	30,144	28,797	28,875	25,284	21,156	15,910	10,173	21,104	26,942	29,901	34,207	29,982	302,475

Total Sales of BITUMINOUS COAL for consumption by Railroad Companies:

Cascade	7,621	8,441	7,859	8,345	9,987	9,390	9,519	9,225	10,432	8,371	7,870	8,517	105,577
Crownest	45,241	65,475	60,297	66,050	84,786	70,572	96,490	82,100	94,160	98,070	69,755	59,123	892,119
Mountain Park	45,395	42,083	41,963	39,331	35,129	35,974	28,634	41,450	51,795	61,464	44,490	63,099	530,807
Nordeg	12,747	16,027	16,675	8,585	8,432	6,621	6,004	6,616	8,588	16,037	18,309	13,950	138,591
Total	111,004	132,026	126,794	122,311	138,334	122,557	140,647	139,391	164,975	183,942	140,424	144,689	1,567,094
Grand Total	141,148	160,823	155,669	147,595	159,490	138,467	150,820	160,495	191,917	213,843	174,631	174,671	1,969,569

Total amount of Domestic Coal disposed of by areas during each month for consumption in Alberta:
LUMP COAL

Ardley	946	1,146	246	108	5	127	162	438	1,109	760	590	575	5,918
Big Valley	50	40	35	16	91	91	127	446	8	20	15	30	219
Brooks	746	696	190	316	224	398	375	403	1,717	2,692	1,229	771	9,183
Camrose	3,747	4,534	1,535	915	522	452	384	847	1,968	3,861	3,696	3,724	25,380
Carbon	3,971	5,629	1,586	847	522	452	384	847	2,947	4,455	3,587	3,082	28,309
Castor	2,098	2,454	1,590	463	113	96	112	173	1,148	2,372	1,482	1,221	13,322
Champion	1,714	2,075	1,032	904	431	417	533	1,104	2,677	2,776	1,617	1,604	16,884
Drumheller	16,530	26,360	6,242	5,091	2,487	2,057	2,564	4,393	12,482	20,129	12,748	14,665	125,748
Edmonton	24,868	31,015	8,797	5,762	2,500	1,942	1,644	2,377	10,644	16,822	16,414	22,905	145,690
Gleichen	506	456	202	15	...	...	7	31	53	321	547	763	2,901
Halcourt	8,443	12,346	6,762	4,397	2,066	1,693	1,726	3,711	10,998	10,176	8,158	8,165	78,641
Lethbridge .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Magrath	44	75	42	44	9	20	16	48	242	287	137	21	985
Milk River	294	280	133	119	142	11	165	31	415	388	130	9	2,117
Pakowki	1,990	2,947	708	258	52	21	1	15	197	399	463	629	7,677
Pembina	518	837	496	219	140	...	...	719	1,792	336	587	472	6,355
Redcliff	278	361	119	193	30	12	11	48	394	903	67	358	1,405
Rochester	837	1,252	485	294	187	182	114	270	1,248	1,237	574	173	5,070
Sheerness	935	1,137	524	313	157	136	138	153	606	2,065	1,557	1,433	7,275
Taber	1,461	1,698	702	32	10	...	...	...	...	...	...	...	10,419
Tofield	86	127	32	10	...	...	...	...	...	35	40	70	410
Wetaskiwin .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	231	215	72	23	...	...	...	...	20	109	117	157	944
No Area .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	70,293	95,680	31,526	20,307	9,156	7,564	7,952	15,207	50,675	70,430	54,642	61,400	494,832

THE MINES BRANCH

MINE-RUN COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley	1,392	1,443	378	122	37	60	64	84	687	1,791	1,602	1,141	8,801
Big Valley	466	400	232	80	45	25	23	30	135	455	353	301	2,545
Camrose	192	260	71	...	...	...	...	30	173	432	229	388	1,775
Carbon	904	1,096	561	352	144	72	109	134	604	1,282	1,038	881	7,177
Castor	3,386	3,805	1,643	459	195	127	201	499	3,234	6,659	4,332	3,089	27,529
Drumheller	2,642	2,431	243	696	183	173	329	1,374	1,096	1,095	4,766	760	11,698
Edmonton	11,659	12,837	6,038	3,880	4,371	4,720	6,646	5,687	5,520	8,848	8,327	11,765	90,298
Gleichen	1,098	1,352	607	472	185	228	221	468	1,476	1,822	1,013	944	9,886
Halcourt	102	84	66	19	6	23	23	30	39	...	...	4	373
Lethbridge	1,231	1,458	1,108	1,050	923	996	1,166	1,575	1,633	1,508	1,226	1,248	15,122
Magrath	36	85	135	82	7	8	39	47	82	122	139	74	856
Milk River	288	337	273	155	73	89	85	237	1,072	759	534	180	4,082
Pakan	583	...	...	...	...	...	...	...	68	159	87	53	823
Pakowki	118	151	60	31	16	...	18	116	200	159	103	169	1,009
Pembina	66	56	40	14	638	1,605	782	385	301	182	387	391	4,159
Redcliff	284	465	190	52	141	45	332	...	183	...	...	...	2,652
Rochester	85	22	14	...	...	...	...	...	...	15	15	7	143
Sexsmith	...	...	...	...	...	...	...	...	...	...	...	44	44
Sheerness	984	1,114	1,146	793	173	197	218	363	2,054	3,323	1,431	1,022	12,818
Taber	144	179	84	99	51	52	52	140	359	209	123	239	1,731
Tofield	1,377	1,425	296	192	64	126	62	125	293	785	954	639	6,338
Wetaskiwin	125	150	57	...	...	4	11	15	34	75	66	141	678
Whitecourt	26	21	11	1	...	...	...	...	...	6	13	38	116
No Area	146	50	98	100	128	...	...	134	...	57	16	25	754
Total	27,334	29,221	13,351	8,649	7,280	8,550	10,358	11,673	19,175	29,637	22,464	23,715	211,407

NUT COAL

Ardley	542	913	375	415	1	11	118	251	730	600	503	406	4,865
Big Valley	37	25	15	6					7	10	10	15	125
Brooks	35	16	9								6		66
Camrose	3,033	3,492	1,863	1,497	505	390	282	502	1,216	2,127	1,840	2,375	19,122
Carbon	2,710	3,960	2,010	1,256	674	524	524	1,713	3,160	3,821	3,387	2,649	27,123
Castor	136	187	127	101	33	27	17	28	113	196	85	58	1,108
Champion	503	520	282	315	143	138	193	329	633	623	338	327	4,344
Drumheller	8,213	10,705	3,049	2,376	918	703	479	1,693	4,159	7,130	4,546	5,750	49,721
Edmonton	22,162	24,505	13,691	11,215	6,824	4,526	3,535	5,148	11,873	17,144	16,104	20,513	157,240
Halcourt													8
Lethbridge	2,684	3,642	1,751	1,311	476	485	406	1,484	3,006	2,432	2,369	1,503	21,550
Pembina	822	855	334	698	124	427	612	473	158	299	340	365	5,507
Redcliff	142	67	21					46	105	225	89	83	782
Rochester	67	64	25		31	183				18	33	123	361
Sheerness		34	30	228	176	10		86	100		33		770
Taber	71	172	46	27	14	10	15	22	36	230	77	156	940
Tofield	75	79	10	7					20	168	390	284	1,049
Wetaskiwin	112	93	51	20					3	65	67	146	574
No Area	157	183	113	22						89	112	202	881
Total	41,501	49,512	23,802	19,494	10,504	7,574	6,181	11,775	25,319	35,182	30,329	34,963	296,136

SLACK COAL

Ardley	470	553	213	169		267	113	92	174	451	310	319	3,131
Big Valley													
Brooks	16	2	3	2	269	201	201	1	18	19	31	36	128
Camrose	706	698	279	710	1,569	33	1,384	230	392	443	602	991	5,722
Carbon	1,512	2,528	682	704				439	1,195	854	885	3,290	15,075
Castor										10			10
Drumheller	8,051	9,385	2,561	2,853	2,077	1,652	2,128	2,965	6,430	11,033	6,830	9,265	65,130
Edmonton	18,135	19,886	9,807	6,534	3,840	2,436	2,989	3,075	9,690	15,454	13,767	17,927	123,640
Halcourt								4	4	9	34	18	117
Lethbridge	3,205	5,722	3,222	1,301	562	956	1,048	2,785	4,983	6,780	4,674	5,587	40,725
Pembina	1,494	1,915	1,076	1,102	391	237	390	496	638	779	928	707	10,083
Redcliff		42	8	7				7	160	283	138	53	701
Rochester	59	37	37	31	8	49	76		33	67	19	32	192
Sheerness	33		32										321
Taber	6												6
Wetaskiwin	20	20	20	5					5	10	10	29	119
Whitecourt				2									2
No Area	69	60	63	9						11	38	14	264
Total	33,796	40,767	18,010	13,429	8,716	5,831	8,334	10,034	23,622	36,203	28,266	38,268	265,276

THE MINES BRANCH

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Alberta:

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur	883	1,754	1,681	217	32	141	228	346	1,112	1,160	868	1,258	9,680
Morley	...	...	...	...	...	...	...	...	...	...	...	13	13
Pekisko	115	76	104	50	19	10	10	38	143	188	65	100	918
Pincher	415	64	1,409	98	31	...	92	400	314	526	317	741	4,407
Prairie Creek	211	382	32	33	...	38	31	124	570	436	129	205	2,191
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	1,624	2,276	3,226	398	82	189	361	908	2,139	2,310	1,379	2,317	17,209

MINE-RUN COAL

Coalspur	152	155	110	68	54	56	67	59	111	86	127	156	1,201
Morley	...	...	...	...	...	...	...	...	...	...	...	3	3
Pekisko	678	651	398	234	193	100	244	407	279	346	409	461	4,400
Prairie Creek	99	167	88	33	12	39	13	10	39	82	87	133	802
Saunders	100	114	33	84	7	89	6	40	210	255	62	74	1,074
Total	1,029	1,087	629	419	266	284	330	516	639	769	772	827	7,567

NUT COAL

Coalspur	192	235	401	231	95	463	128	6	676	923	318	861	4,529
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	90	111	66	52	31	5	14	25	84	80	54	35	647
Pincher	172	441	9	30	...	...	...	110	80	125	123	89	1,069
Prairie Creek	352	281	419	68	36	104	1	110	194	438	359	601	2,963
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	806	1,068	895	381	162	572	143	141	1,034	1,566	854	1,586	9,208

SLACK COAL

Coalspur	465	1,219	1,285	161	110	189	424	641	1,511	1,276	1,377	8,658
Morley	12	155	...	...	...	...	...	20	20	12	8	20
Pincher	862	...	689	63	31	31	361	649	454	596	809	207
Prairie Creek	...	...	...	...	...	...	36	33	15	...	...	4,545
Saunders	...	...	...	...	...	...	...	...	...	...	...	84
Total	1,339	1,374	1,974	224	31	220	821	1,343	2,000	1,884	2,194	13,514

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Alberta:

LUMP COAL

Cascade	295	337	128	75	3	52	20	106	251	124	232	1,627
Crowsnest	541	908	402	248	218	256	164	371	444	360	445	4,405
Mountain Park	161	196	134	134	51	41	45	95	115	126	182	1,309
Total	997	1,441	664	457	272	349	229	572	810	610	859	7,341

MINE-RUN COAL

Cascade	49	87	70	74	141	32	96	128	681		
Crowsnest	2,620	3,723	1,660	1,063	458	4	1,125	1,579	2,358	20,115	
Mountain Park	441	580	335	230	121	119	199	286	358	3,363	
Nordeg	497	729	549	145	89	342	327	465	448	4,663	
Total	3,558	5,081	2,544	1,438	672	988	1,725	2,471	2,488	3,199	28,822

NUT COAL

Cascade	107	146	82	75	4	26	31	59	68	106	126	851
Crowsnest	196	179	161	127	64	27	36	170	156	148	125	1,408
Total	303	325	243	202	68	53	67	229	224	254	251	2,259

SLACK COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade										15		30	146
Crowsnest	237	205	15	20	177	40	99	238	269	327	203	690	2,834
Mountain Park	32		2	201	31	72			2			42	67
Nordegg							30						72
Total	269	209	133	221	230	112	129	238	271	342	203	762	3,119

Total amount of Domestic Coal disposed of by areas during each month for consumption in British Columbia:

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Camrose	73	278	33	68	68	210		412	32	1,169	771	404	32
Carbon	3,344	4,745	525	661	34	175	346	318	1,034	3,984	4,136	3,674	4,570
Drumheller		34							2,473	31	65	33	24,315
Edmonton	1,614	2,320	963	1,051	355	231	311	1,149	97	4,626	2,995	2,340	260
Lethbridge	170	283	63	16					2,532				20,497
Pembina													532
Total	5,201	7,660	1,584	1,796	457	616	657	1,879	6,218	9,710	7,967	6,451	50,196

MINE-RUN COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Drumheller				32		30			37				99
Total				32		30			37				99

NUT COAL

Carbon	1,345	38	203	635	467	102	295	106	246	239	34	765
Drumheller	2,064	351	67	138	101	343	285	359	1,690	2,090	1,596	13,148
Edmonton	355	638	535	16	...	64	97	139	604	922	449	3,712
Lethbridge	466	...	...	...	...	...	...	...	...	32	25	1,712
Pembina .....	...	...	...	...	...	...	...	...	...	...	...	...
Total	2,166	3,091	805	789	568	509	392	696	2,540	3,314	2,137	19,465

SLACK COAL

Carbon	243	...	...	...	...	276	...	...	178	153	228	276
Drumheller	1,158	921	162	760	444	...	...	35	217	153	541	802
Lethbridge .....	...	...	...	...	...	...	...	...	...	...	...	4,391
Total	1,401	921	162	760	444	276	...	35	395	306	769	5,469

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in British Columbia:

LUMP COAL

Coalspur	1,924	3,515	318	390	47	160	377	475	1,098	1,493	2,606	2,754	15,157
Pincher	454	832	94	178	...	...	53	65	287	382	630	557	3,532
Prairie Creek	30	...	...	...	...	...	...	...	199	99	50	65	443
Saunders .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	2,408	4,347	412	568	47	160	430	540	1,584	1,974	3,286	3,408	19,164

MINE-RUN COAL

Coalspur	33	33	...	33	65	...	33	138	33	...	...	...	302
Prairie Creek .....	...	...	...	...	45	...	...	...	...	45	...	46	202
Total	33	33	...	33	110	...	33	138	33	45	...	46	504

NUT COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur	1,561	2,218	1,373	695	332	163	288	749	1,682	1,606	1,921	2,518	15,106
Prairie Creek	350	559	258	80	.....	.....	40	129	240	433	347	341	2,777
Saunders .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17	.....	17
Total ..	1,911	2,777	1,631	775	332	163	328	878	1,922	2,039	2,285	2,859	17,900

SLACK COAL

Coalspur	15	873	.....	.....	.....	.....	.....	.....	20	.....	16	10	934
Prairie Creek	4	21	.....	.....	.....	.....	.....	.....	.....	.....	63	6	94
Total ..	19	894	.....	.....	.....	.....	.....	.....	20	.....	79	16	1,028

Total amount of Bituminous Coal disposed of by areas during each month for consumption in British Columbia:

LUMP COAL

Cascade	10	21	.....	.....	.....	.....	.....	.....	43	60	129	7	270
Crowsnest	102	111	.....	.....	.....	.....	.....	348	577	432	286	103	1,959
Total ..	112	132	.....	.....	.....	.....	.....	348	620	492	415	110	2,229

MINE-RUN COAL

Cascade .....	.....	129	44	.....	.....	45	.....	45	229	.....	44	50	586
Crowsnest .....	.....	100	.....	.....	146	.....	391	481	538	164	49	81	1,950
Total ..	.....	229	44	.....	.....	191	391	526	767	164	93	131	2,536

NUT COAL

Cascade	48	6	90	33	47	106	35	57	422
Crowsnest	215	314	33	.....	48	111	444	244	2,231
Total	263	320	123	33	95	217	444	301	2,653

SLACK COAL

Cascade	9,973	10,845	11,011	10,542	8,749	10,298	9,281	13	13
Crowsnest	.....	.....	.....	.....	.....	.....	.....	10,126	123,582
Total	9,973	10,845	11,011	10,542	8,749	10,298	9,281	10,139	123,595

Total amount of Domestic Coal disposed of by areas during each month for consumption in Saskatchewan:

LUMP COAL

Ardley	274	237	10	.....	439	362	628	119	304	2,954
Brooks	225	56	98	33	227	75	358	627	305	291
Camrose	563	393	499	542	101	659	962	1,887	1,151	3,194
Carbon	1,366	1,217	.....	.....	34	.....	.....	.....	.....	9,314
Castor	.....	.....	.....	.....	.....	67	32	.....	.....	99
Drumheller	82,966	101,621	21,207	14,948	2,506	17,566	71,402	118,874	49,428	559,304
Edmonton	1,255	474	1,656	311	531	386	875	1,439	1,069	9,229
Lethbridge	12,124	12,168	6,039	3,183	1,174	6,601	13,341	22,843	12,491	106,855
Pembina	238	164	1,248	.....	.....	68	68	226	64	38
Redcliff	2,063	1,393	771	269	192	146	1,227	2,627	1,510	2,046
Sheerness	889	1,033	95	.....	.....	29	181	600	400	11,175
Taber	.....	.....	.....	.....	.....	76	.....	178	68	3,624
Tofield	94	63	.....	.....	.....	.....	440	1,438	268	2,655
Total	102,057	118,819	31,623	19,286	4,855	25,900	89,283	151,399	66,873	705,062

MINE-RUN COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Camrose	132	165	...	1,457	133	102	243	3906	101	67	66	68	638
Drumheller	82	225	67	41	147	...	52	208	272	1,860	650	347	11,223
Pembina	274	629	235	185	183	...	394	96	186	130	420	273	720
Redcliff	1,092	1,254	876	803	142	207	152	220	347	464	477	1,213	3,005
Sheerness	935	1,019	337	1,136	...	1,442	1,494	1,416	1,715	706	611	805	7,247
Tofield	...	...	...	...	...	...	...	...	...	...	...	...	11,616
Total	2,515	3,292	1,515	3,622	605	1,751	2,335	5,885	4,772	3,227	2,224	2,706	34,449

NUT COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley	231	110	67	...	32	127	34	97	563	499	180	133	1,981
Camrose	425	344	65	404	138	71	32	32	294	90	224	255	2,007
Carbon	967	486	248	5,892	1,971	1,316	35	201	892	956	435	765	5,666
Drumheller	27,355	36,806	9,400	5,892	1,971	1,316	1,039	6,217	22,346	39,312	16,033	24,413	192,100
Edmonton	3,447	448	157	66	72	23	383	275	299	835	188	323	3,130
Lethbridge	3,116	3,267	1,606	1,173	399	257	383	1,962	3,814	6,816	3,182	2,619	28,701
Pembina	2,839	2,035	1,376	784	219	280	61	218	558	890	707	720	10,687
Redcliff	65	...	...	45	33	...	...	...	...	124	63	60	357
Sheerness	1,070	629	336	809	33	...	...	...	...	173	114	369	3,564
Taber	...	...	...	...	...	...	...	...	136	...	33	...	136
Tofield	...	...	...	...	...	...	...	...	...	...	...	...	33
Total	36,515	44,125	13,255	9,160	3,004	2,230	1,647	8,992	28,923	49,695	21,159	29,657	248,362

SLACK COAL

Ardley	192	212	389	379	260	393	200	66	65	66	197
Camrose	424	314	126	166	680	778	308	16	517	482	3,742
Carbon	17,059	18,201	8,015	7,723	4,588	5,437	7,096	5,688	12,430	438	4,634
Drumheller								33	16,505	13,850	133,249
Edmonton	398	1,912	574	50	50	265	43	280	1,817	1,144	33
Lethbridge	1,270	1,159	679	153	209	265	187	232	252	208	9,985
Pembina	966	1,255	431	184	137	34	41	232	949	1,046	4,678
Redcliff	639	435	67	32		90	224	181	62	72	7,846
Sheerness									322	184	1,547
Tofield									446	309	1,877
Total	20,948	23,488	10,281	8,637	6,045	6,219	8,569	6,804	16,481	21,633	167,788

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Saskatchewan:

LUMP COAL

Coalspur	168	731	28					102	631	486	197	190	2,533
Pincher	165	321						42	143	285	53	96	774
Prairie Creek	579	320	35	65	219			330	961	1,475	354	736	5,074
Saunders													
Total	912	1,083	63	65	219			474	1,735	2,246	604	1,022	8,423

MINE-RUN COAL

Prairie Creek	78	79	47			31		47				78	360
Saunders								33	92	297	100	34	556
Total	78	79	47			31		86	92	297	100	112	916

NUT COAL

Areas	Jan.	Feb.	Mar.	April.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur	94	971	32	.....	.....	30	74	.....	157	132	60	240	1,790
Prairie Creek	31	62	.....	.....	.....	.....	.....	.....	112	35	46	.....	286
Saunders	443	556	301	31	33	.....	162	367	603	697	343	366	3,902
Total	568	1,589	333	31	33	30	236	367	872	864	449	606	5,978

SLACK COAL

Coalspur	250	420	245	259	29	560	520	32	.....	94	.....	496	2,811
Prairie Creek .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49	143
Saunders	300	255	67	40	.....	126	35	34	321	520	465	320	2,483
Total	550	675	312	299	29	686	555	66	321	614	465	865	5,437

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Saskatchewan:

LUMP COAL

Cascade	35	81	34	.....	.....	.....	.....	68	542	289	11	34	229
Crowsnest	624	213	.....	.....	.....	.....	33	.....	.....	.....	146	184	2,133
Mountain Park .....	.....	.....	.....	.....	.....	33	.....	.....	.....	.....	.....	.....	33
Total	659	294	34	.....	.....	33	33	68	542	357	157	218	2,395

MINE-RUN COAL

Cascade	1,490	1,685	410	329	33	98	235	780	1,503	1,947	12	1,171	45
Crowsnest .....	.....	.....	.....	.....	49	.....	50	34	34	34	34	1,544	11,241
Mountain Park .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	118
Total	1,490	1,685	410	329	82	98	285	780	1,537	1,959	1,205	1,544	11,404

NUT COAL

Cascade	364	479	33	66	..	..	..	67	274	231	233	212	1,959
Crownest	468	643	176	64	80	..	..	47	296	1,124	539	503	3,940
Mountain Park .....	..	72	..	..	..	..	..	..	..	..	..	..	72
Total	832	1,194	209	130	80	..	..	114	570	1,355	772	715	5,971

SLACK COAL

Cascade	286	149	65	79	..	..	..	133	92	127	89	121	765	1,906
Crownest	3,604	3,455	1,938	2,114	2,637	2,001	1,852	1,932	1,932	2,838	3,691	3,352	3,383	32,797
Mountain Park	33	113	..	..	..	..	34	..	..	..	66	67	..	313
Nordeg	830	694	745	557	..	743	816	871	871	685	862	726	..	7,529
Total	4,753	4,411	2,748	2,750	2,637	2,778	2,801	2,895	3,650	4,708	4,199	4,215	..	42,545

Total amount of Domestic Coal disposed of by areas during each month for consumption in Manitoba:

LUMP COAL

Camrose	33	98	135	..	..	..	..	..	183	70	105	63	66	618
Carbon	1,202	715	2,746	1,530	522	835	660	2,121	482	359	774	374	525	4,662
Drumheller	22,731	27,078	61	..	..	..	..	..	9,277	29,524	14,000	22,698	133,722	133,722
Edmonton	512	538	61	..	..	..	..	..	94	454	256	530	..	2,465
Lethbridge	745	893	204	179	749	1,080	888	646	850	1,243	1,280	616	..	9,373
Pembina	190	81	64	..	..	..	..	..	..	..	..	65	..	400
Redcliff	392	337	..	..	..	..	..	..	..	..	485	166	723	2,103
Sheerness .....	..	..	..	..	..	..	..	..	..	..	32	34	..	66
Taber .....	..	..	..	..	..	..	..	..	..	..	70	106	..	176
Tofield .....	..	..	..	..	..	..	..	..	..	..	30	129	..	159
Total	25,805	29,760	3,210	1,741	1,305	1,915	1,578	3,432	10,650	32,717	16,408	25,223	..	153,744

MINE-RUN COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Drumheller .....	.....	.....	.....	105	.....	.....	.....	200	240	171	70	34	820
Pembina .....	.....	.....	.....	.....	272	.....	.....	128	148	686	433	.....	272
Sheerness	1,147	104	456	.....	133	686	1,197	160	195	698	329	.....	5,118
Tofield	899	33	260	.....	1,231	445	644	.....	.....	.....	.....	374	5,268
Total ..	2,046	137	716	105	1,636	1,131	1,841	488	583	1,555	832	408	11,478

NUT COAL

Camrose .....	.....	.....	260	.....	.....	.....	.....	.....	.....	267	192	.....	719
Carbon	105	106	33	.....	.....	.....	.....	68	268	438	136	153	1,307
Drumheller	5,612	6,535	963	533	194	99	161	761	2,680	7,484	3,262	4,921	33,205
Edmonton	10	35	.....	.....	132	.....	.....	.....	133	130	30	65	535
Lethbridge .....	.....	.....	.....	.....	.....	.....	.....	.....	78	33	.....	32	143
Pembina	460	478	64	.....	135	.....	.....	.....	.....	.....	33	.....	1,137
Redcliff	32	35	.....	.....	.....	.....	.....	.....	222	555	454	510	100
Sheerness	847	210	440	306	67	769	.....	.....	.....	30	.....	.....	4,380
Taber .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	99	.....	.....	30
Tofield .....	.....	132	165	132	.....	.....	.....	.....	.....	.....	.....	.....	528
Total ..	7,066	7,531	1,925	971	528	868	161	829	3,381	9,036	4,107	5,681	42,084

SLACK COAL

Carbon .....	.....	.....	94	92	.....	.....	.....	.....	.....	209	1,869	89	481
Drumheller	3,902	4,563	866	544	.....	32	48	123	985	4,000	.....	5,959	22,891
Lethbridge	2,690	.....	.....	.....	.....	.....	.....	43	37	98	31	63	2,690
Pembina	94	97	97	32	.....	.....	.....	.....	.....	.....	.....	.....	592
Total ..	6,686	4,660	1,057	668	.....	32	48	166	1,022	4,307	1,900	6,111	26,657

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Manitoba:

LUMP COAL												
Coalspur	5,066	3,574	600	372	160	703	1,809	2,259	3,956	3,254	3,829	25,582
Prairie Creek	582	206	64	50	30	30	66	205	650	612	563	3,028
Saunders	1,278	890	324	30	31	210	102	577	1,037	858	878	6,528
Total	6,926	4,670	988	452	31	468	1,977	3,041	5,643	4,724	5,270	35,133
MINE-RUN COAL												
Coalspur	34	33	155	...	...	...	...	...	...	...	...	67
Prairie Creek	321	184	...	...	...	...	...	...	43	...	44	660
Saunders .....	...	...	...	...	...	...	...	...	...	...	...	87
Total	355	217	155	...	...	...	...	...	43	...	44	814
NUT COAL												
Coalspur	3,195	3,103	1,229	854	946	34	680	1,501	3,384	4,383	4,068	23,555
Prairie Creek	201	115	62	43	151	32	64	31	213	218	284	1,231
Saunders	750	450	194	32	...	167	125	454	682	521	559	4,117
Total	4,146	3,668	1,485	929	1,097	66	869	1,986	4,279	5,122	4,911	28,903
SLACK COAL												
Coalspur	2,275	961	317	33	...	42	82	598	818	813	538	6,477
Prairie Creek	574	865	32	...	...	68	62	32	321	97	30	2,013
Saunders	381	300	292	...	33	164	68	487	642	354	476	3,265
Total	3,230	2,126	641	33	33	164	212	1,117	1,781	1,264	1,044	11,755

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Manitoba:

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade	185	91	...	...	...	...	...	...	46	52	44	47	465
Crowsnest	33	32	...	...	...	...	...	32	43	185	76	...	401
Mountain Park .....	...	...	34	73	75	33	34	34	34	101	...	...	418
Total	218	123	34	73	75	33	34	66	123	338	120	47	1,284

MINE-RUN COAL

Crowsnest	1,243	458	239	77	121	146	165	145	212	389	597	649	4,421
Mountain Park	1,351	1,121	725	162	...	34	34	67	478	1,071	609	994	6,646
Total	2,594	1,579	964	239	121	180	199	212	690	1,440	1,206	1,643	11,067

NUT COAL

Cascade	1,561	1,353	706	311	45	170	33	187	478	946	890	1,526	8,206
Crowsnest	204	117	131	81	321	392	80	91	250	410	548	293	2,918
Total	1,765	1,470	837	392	366	562	113	278	728	1,356	1,438	1,819	11,124

SLACK COAL

Cascade	1,631	1,590	700	519	133	122	90	122	508	475	688	1,221	7,799
Crowsnest	4,791	4,947	3,024	2,458	1,393	273	361	715	2,341	2,396	4,012	7,622	34,333
Mountain Park	6,284	5,900	5,279	4,348	4,078	5,228	5,927	7,310	7,302	8,927	8,924	5,058	74,565
Total	12,706	12,437	9,003	7,325	5,604	5,623	6,378	8,147	10,151	11,798	13,624	13,901	116,697

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Ontario:

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur	1,219	615	311	...	...	122	396	430	1,138	2,394	1,863	1,407	9,895
Prairie Creek	677	657	159	...	...	...	32	67	512	1,116	706	616	4,542
Saunders	616	879	94	66	31	31	62	294	435	749	585	780	4,622
Total	2,512	2,151	564	66	31	153	490	791	2,085	4,259	3,154	2,803	19,059

NUT COAL

Coalspur	117	228	...	29	...	123	...	183	147	438	287	63	1,615
Prairie Creek	15	19	16	...	...	...	...	...	...	107	39	...	196
Saunders	15	15	...	...	33	312	...	...	430	57	...	30	892
Total	147	262	16	29	33	435	...	183	577	602	326	93	2,703

SLACK COAL

Coalspur .....	...	...	16	...	...	...	...	38	11	4	10	5	68
Prairie Creek .....	...	...	...	...	...	...	...	...	...	...	...	...	16
Total .....	...	...	16	...	...	...	...	38	11	4	10	5	84

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Ontario:

MINE-RUN COAL

Crowanest .....	...	40	48	...	...	47	...	...	...	...	...	47	182
Total .....	...	40	48	...	...	47	...	...	...	...	...	47	182

NUT COAL

Cascade	47	...	48	...	127	18	32	34	187	231	32
Crowsnest .....	...	...	...	...	...	...	42	...	...	...	734
Total	47	...	48	...	127	18	74	34	187	231	766

SLACK COAL

Crowesnest	342	193	195	246	...	137	15	1,356	340	389	434	3,647
Total	342	193	195	246	...	137	15	1,356	340	389	434	3,647

Total amount of Domestic Coal disposed of by areas during each month for consumption in United States:

LUMP COAL

Carbon	34	267	33	32	...	...	47	33	368	32	112
Drumheller	807	791	114	129	...	...	145	68	240	240	1,187
Lethbridge .....	...	...	...	...	...	...	410	375	560	463	3,649
Pembina	100	134	...	...	...	...	...	...	...	...	234
Redcliff .....	...	...	...	...	...	...	...	...	...	...	...
Total	941	1,192	147	161	...	...	602	476	928	735	5,182

NUT COAL

Carbon	206	706	64	...	...	...	152	204	18	370	18
Drumheller	572	1,233	214	170	...	...	197	562	277	586	1,979
Lethbridge .....	...	...	...	...	...	...	...	...	606	...	4,949
Total	778	1,939	278	170	...	...	197	766	901	956	6,946

SLACK COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Carbon .....	...	...	...	...	...	...	...	...	...	...	18	...	18
Drumheller	32	...	...	...	...	...	...	...	43	...	64	...	139
Lethbridge	34	...	...	...	...	...	...	...	...	33	...	...	67
Total	66	...	...	...	...	...	...	...	43	33	82	...	224

Total amount of Bituminous Coal disposed of by areas during each month for consumption in the United States:

LUMP COAL

Crowsnest .....	...	49	...	...	...	...	...	...	76	48	46	32	251
Total .....	...	49	...	...	...	...	...	...	76	48	46	32	251

MINE-RUN COAL

Crowsnest	48	...	...	...	...	48	...	49	...	94	...	...	239
Total	48	...	...	...	...	48	...	49	...	94	...	...	239

NUT COAL

Crowsnest	396	447	91	94	...	...	77	112	377	679	853	1,320	4,446
Total	396	447	91	94	...	...	77	112	377	679	853	1,320	4,446

SLACK COAL

Crowsnest	911	1,433	404	100	290	279	322	634	961	1,335	1,984	1,456	10,109
Total	911	1,433	404	100	290	279	322	634	961	1,335	1,984	1,456	10,109

Amount of Domestic Coal used under Colliery Boilers by areas during each month:

Ardley	90	105	50	50	80	70	50	60	160	140	65	85	925
Camrose	110	110	95	80	80	80	80	65	105	100	105	110	1,120
Carbon	70	70	50	35	10	10	10	20	50	70	60	70	525
Castor	34	36	23	6	6	587	647	983	28	38	30	25	220
Drumheller	2,115	2,125	1,504	720	625	587	647	983	2,001	2,184	1,907	2,142	17,520
Edmonton	1,618	1,581	1,130	712	610	490	608	593	969	983	1,174	1,304	11,827
Haicourt	963	1,175	574	233	105	143	76	183	94	140	222	542	4,430
Lethbridge	970	1,028	748	38	52	50	52	51	56	50	55	67	3,237
Pembina	80	70	64	70	13	25	25	10	30	72	96	75	607
Sheerness	100	100	100	200	200	350	350	350	200	100	100	100	2,250
Tofield													
Total	6,150	6,400	4,388	2,164	1,697	1,780	1,898	2,315	3,693	3,867	3,822	4,536	42,710

Amount of Sub-Bituminous Coal used under Colliery Boilers by areas during each month:

Coalspur	1,813	1,872	1,703	1,516	1,096	1,292	1,032	1,247	1,426	1,547	1,378	1,585	17,507
Pekisko	10	10	10	14	25	20	18	17	18	14	20	20	196
Fincher	527	578	361	344	206	193	210	278	358	447	407	519	4,428
Prairie Creek	569	512	324	119	256	232	138	245	474	643	509	570	4,591
Saunders													
Total	2,919	2,980	2,403	1,998	1,587	1,737	1,398	1,787	2,276	2,651	2,314	2,694	26,744

Amount of Bituminous Coal used under Colliery Boilers by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade	1,516	1,535	1,377	1,192	980	1,157	1,219	1,109	1,425	1,460	1,458	1,322	15,750
Crownest	2,262	2,459	2,292	2,252	2,009	1,862	1,539	1,324	1,584	1,901	2,138	2,353	23,975
Mountain Park	2,803	3,157	2,993	2,740	2,598	2,453	2,526	2,595	2,892	2,983	3,084	3,753	34,577
Nordegg	544	649	578	560	444	574	193	218	330	434	608	712	5,844
Total	7,125	7,800	7,240	6,744	6,031	6,046	5,477	5,246	6,231	6,778	7,288	8,140	80,146

Amount of Domestic Coal used by Colliery Railroads by areas during each month: .

Pembina	60	80	25	...	...	...	...	...	...	...	...	...	165
Redcliff	74	90	60	...	...	...	...	...	...	...	...	...	681
Total	134	170	85	32	20	4	26	30	104	92	69	80	846

Amount of Sub-Bituminous Coal used by Colliery Railroads by areas during each month:

Coalspur	458	504	664	402	338	308	259	180	343	457	483	531	4,927
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Amount of Bituminous Coal used by Colliery Railroads by areas during each month:

Cascade	48	51	33	33	33	33	33	33	45	42	40	45	469
Crownest	37	62	37	44	52	42	58	56	71	79	73	59	670
Total	85	113	70	77	85	75	91	89	116	121	113	104	1,139

Amount of Bituminous Coal used making Briquettes:

Cascade	2,679	2,903	1,033	731	498	481	358	457	2,209	3,219	2,357	2,557	19,472
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Amount of Bituminous Coal used making Coke:

Crowsnest	7,907	7,869	8,523	7,937	7,991	8,283	8,084	8,327	7,624	8,478	8,036	8,294	97,353
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Amount of Domestic Coal Put to Stock by areas during each month:

Ardley	530	383	30	20	...	66	200	200	200	620	175	550	466
Canrose	105	20	8	59	...	120	5	339	220	617	375	15	2,145
Carbon	30	30	...	13	4	5	...	5	50	70	10	15	1,998
Castor	960	2,960	70	54	110	1,325	45	970	970	1,932	40	630	9,096
Champion	455	941	128	18	...	70	10	20	7	333	330	330	2,214
Edmonton	95	496	110	54	...	...	...	629	472	150	232	...	133
Halcourt	400	525	48	12	...	...	...	...	...	...	...	...	2,613
Lethbridge	400	...	35	16	...	...	...	...	...	...	...	...	80
Pakowski .....	...	...	...	...	...	...	...	...	...	...	...	...	925
Pembina .....	...	...	...	...	...	...	...	...	...	...	...	...	51
Tofield .....	...	...	...	...	...	...	...	...	...	...	...	1	1
No Area .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	2,945	5,355	429	246	119	1,586	20	599	2,095	3,722	1,083	1,758	19,957

Amount of Sub-Bituminous Coal Put to Stock by areas during each month:

Coalspur	125	250	50	90	...	113	42	120	256	214	218	130	1,558
Pekisko	34	25	6	...	...	...	...	133	36	235	662	235	50
Prairie Creek .....	...	...	...	...	92	...	56	...	...	...	151	120	1,233
Saunders .....	...	...	...	...	...	...	...	...	...	...	...	...	552
Total	159	275	56	90	92	113	98	253	292	449	1,031	485	3,393

Amount of Bituminous Coal Put to Stock by areas during each month:

Cascade	633	357	175	475	219	128	129	299	355	618	513	543	4,444
Crowsnest	3,505	1,300	3,974	1,812	2,162	3,726	2,043	957	1,813	494	4,452	1,231	27,469
Mountain Park .....	...	42	52	59	196	...	451	...	...	...	83	63	30
Nordegg .....	...	...	...	...	...	...	...	...	...	...	...	...	946
Total	4,138	1,699	4,201	2,346	2,577	3,854	2,623	1,256	2,168	1,112	5,048	1,867	32,899

THE MINES BRANCH

Amount of Domestic Coal Put to Waste by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley	53	25	2	1	1	1	1	2	3	5	4	3	78
Big Valley	3	2	20	19	32	14	34	34	110	114	223	6	28
Camrose	66	661	53	26	34	22	21	42	350	464	311	60	1,200
Carbon	69	444	263	145	34	22	21	42	350	464	311	226	804
Castor	373	86	48	41	16	28	1,150	1,360	3,059	525	127	133	2,692
Champion	86	1,000	38	27	7	9	35	185	305	2,683	1,828	297	885
Drumheller	1,000	64	3	3	20	1	3	10	10	57	27	4	9,302
Edmonton	65	33	43	20	9	4	55	3	35	55	13	3	322
Halcourt	30	15	8	33	45	1	3	3	10	35	13	4	5,475
Lethbridge	8	90	39	33	5	1	3	3	10	35	13	4	194
Milk River	89	240	133	5	45	1	3	3	10	35	13	4	454
Pakowki	216	15	8	33	45	1	3	3	10	35	13	4	597
Pembina	18	220	122	80	52	63	51	72	263	575	322	50	155
Rochester	275	263	130	83	61	54	33	120	379	364	184	78	2,173
Sheerness	178	120	8	20	20	20	16	8	40	64	130	64	1,978
Taber	4	9	20	20	20	20	16	8	40	64	130	64	602
Tofield	4	9	20	20	20	20	16	8	40	64	130	64	1,978
Wetaskiwin	3	9	20	20	20	20	16	8	40	64	130	64	602
Whitecourt	3	9	20	20	20	20	16	8	40	64	130	64	602
No Area	...	...	...	...	...	...	...	...	...	...	...	...	10
	...	...	...	...	...	...	...	...	...	...	...	...	35
	...	...	...	...	...	...	...	...	...	...	...	...	29
	...	...	...	...	...	...	...	...	...	...	...	...	69
Total	2,656	3,337	917	463	269	215	1,428	1,874	4,753	5,383	3,494	2,267	27,056

Amount of Sub-Bituminous Coal Put to Waste by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur	2,465	2,337	2,318	2,305	1,552	997	267	2,030	2,376	3,249	3,006	2,689	25,600
Pekisko	13	11	40	10	5	60	150	100	100	48	20	15	409
Pincher	20	20	40	10	5	60	40	20	45	48	63	51	424
Total	2,498	2,368	2,358	2,315	1,557	1,057	457	2,150	2,521	3,297	3,091	2,764	26,433

Amount of Bituminous Coal Put to Waste by areas during each month:

[illegible]

Amount of Domestic Coal Lifted from Stock by areas during each month:

[illegible]

Amount of Sub-Bituminous Coal Lifted from Stock by areas during each month:

[illegible]

Amount of Bituminous Coal Lifted from Stock by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade	443	633	357	175	475	219	128	129	299	355	618	513	4,244
Crowsnest	812	3,990	1,309	1,239	2,883	1,010	2,397	4,851	2,166	2,454	298	1,681	25,290
Nordeg	121	21	10	70	.....	196	69	534	...	...	...	...	1,021
Total	1,376	4,644	1,676	1,484	3,358	1,425	2,794	5,514	2,465	2,809	916	2,194	30,655

Amount of Domestic Coal Lifted from Waste by areas during each month:

Camrose .....	.....	.....	.....	453	250	80	60	...	.....	.....	.....	.....	843
Castor .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10
Drumheller .....	.....	.....	.....	.....	206	483	1,582	318	.....	.....	10	.....	2,629
Edmonton .....	.....	.....	.....	.....	12	.....	.....	.....	105	200	40	250	567
Lethbridge .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,173	2,173
Total .....	.....	.....	.....	453	468	563	1,642	318	105	200	50	2,423	6,222

Amount of Sub-Bituminous Coal Lifted from Waste by areas during each month:

Coalspur	248	248
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Amount of Bituminous Coal Lifted from Waste by areas during each month:

Crowsnest	23	41	28	39	19	15	10	175
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Output and Number of Mines Producing

Kind of Coal	Under 1,000 tons		1,000 to 5,000 tons		5,000 to 10,000 tons		10,000 to 50,000 tons		50,000 to 100,000 tons		100,000 to 150,000 tons		150,000 to 200,000 tons		200,000 to 300,000 tons		Over 300,000 tons	Total		
	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output				
Domestic	122	48,724	77	157,017	14	97,136	39	1,030,361	15	1,067,570	1	101,574	2	338,849				270	2,841,231	
																		18	566,486	
	6	1,901	2	5,322			6	143,430	2	151,934	2	263,899						17	2,288,658	
	4	1,370	2	5,963					1	73,224	1	136,456	5	896,272	2	473,929	2	701,444		
Total	132	51,995	81	168,302	14	97,136	45	1,173,791	18	1,292,728	4	501,929	7	1,235,121	2	473,929	2	701,444	305	5,696,375

THE MINES BRANCH

Number of men employed in the DOMESTIC FIELD as at December 31, 1936:

Areas	UNDERGROUND													ABOVE GROUND								TOTAL								
	Officials			Machines & Helpers		Machine Loaders	Chute Loaders	Horse H'g's	Employees	Mechanical H'g's Emp's	Ventilation Employees	Road Makers	Timber Men	Pump Men	Other Employees	Total Underground	Adminis- tration	Foreman and Clerks	Screenmen and Loaders	Engine Men	Firemen		Machinists	Carpenters and Masons	Other Mechanics	Surface Haulage	All Other Employees	Total Above Ground		
	Hand Cutters	Machines & Helpers	Machine Loaders	Chute Loaders	Horse H'g's	Employees	Mechanical H'g's Emp's	Ventilation Employees	Road Makers	Timber Men	Pump Men	Other Employees	Total Underground																	
Ardley	13	23	4	20				3								1	64		1	7	2	1				2	15	79		
Big Valley	5	5	2	1				1									13		1		2				1	2	2	15		
Brooks	1	4						7									6				1					5	8	15		
Camrose	6	80						1									96		2	12	3	1				5	29	125		
Carbon	15	15	12	108				25		2							182		6	18	8		1			13	44	226		
Castor	32	88						2									123		3		8					2	18	141		
Champion	10	40	2	4													57		1		22					3	1	8	65	
Drumheller	110	38	222	1,463				246		65	6	91	42	3	86	2,372	15	65	221	22	11	15	14	18	16	109	506	2,878		
Edmonton	51	303	54	374				54		11	4	22	45	9	55	982	7	28	36	31	7	4	8	3	6	39	169	1,151		
Gleichen	4	9	2	6													21		2	1						1	1	5	28	
Halcourt	4	19															23		2	1						1	1	5	28	
Halcourt	4	19															23		2	1						1	1	5	28	
Lethbridge	36	44	54	360				53		35	14	18	18	4	11	647	3	21	50	14	7	6	5	15	4	73	198	845		
Magrath	2	3															5									1	1	6	6	
Milk River	2	7						1									10		1								1	1	11	
Pakan																													1	1
Pakowki	4	4															8		1							9	10	10	10	
Pembina	4	38						5		1		1			2	51	1	1	8	2			1				13	64	8	
Redcliff	2	2	4	28				7			1	1	2		3	48			7	1		1				2	12	60	60	
Rochester	1	3														6			1							1	3	9	9	9
Sexsmith																											1	1	1	1
Sheerness								1																		33	49	67	67	
Taber	7	9						1						1	2	34	4	5	1	2	2				1	1	5	39	39	
Tofield	2	6		6															27	2					1	7	45	53	53	
Wetaskiwin	2	3																	4							1	1	1	1	1
Whitecourt	1	1																									2	2	2	2
No Area	2	8															10		1	1	1					2	4	14	14	
Total	327	758	360	2,370				406	114	25	135	109	18	172	4,794		44	147	393	99	29	26	29	37	43	305	1,152	5,946	5,946	

Number of men employed in the SUB-BITUMINOUS FIELD as at December 31, 1936:

Areas	UNDERGROUND												ABOVE GROUND										TOTAL				
	Officials	Hand Cutters	Machine Cutters & Helpers	Machine Loaders	Chute Loaders	Horse H'g Employees	Mechanical H'g Emps	Ventilation Employees	Road Makers	Timber Men	Pump Men	Other Employees	Total Underground	Adminis- tration	Foreman and Clerks	Screenmen and Loaders	Engine Men	Firemen	Machinists	Carpenters and Masons	Other Mechanics	Surface Haulage		All Other Employees	Total Above Ground		
Coalspur	11	124	16	...	...	13	17	2	2	16	2	1	203	10	24	56	14	16	8	4	12	24	102	270	473
Morley	1	2	...	...	...	...	...	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	4	
Pekisko	4	7	...	...	...	...	...	...	...	...	...	...	11	2	...	1	...	...	...	...	1	...	2	13	
Pincher	2	3	...	...	...	...	...	...	...	...	...	...	5	...	...	...	...	...	...	...	...	...	3	8	
Prairie Creek	7	73	2	18	...	9	8	5	...	1	3	10	136	1	6	24	5	3	3	3	3	3	4	52	188		
Saunders	4	17	10	41	...	...	4	8	...	2	3	5	94	2	2	16	6	2	1	1	1	1	3	35	129
Total	29	226	28	59	...	22	29	15	2	3	22	2	16	453	15	32	97	26	21	9	8	17	28	362	815		
BITUMINOUS																											
Cascade	17	110	...	...	...	8	30	3	6	6	13	13	193	1	13	33	7	10	3	1	41	31	115	456	275
Crownest	63	775	...	11	...	110	37	102	18	25	108	11	1,429	12	54	129	23	19	18	14	9	7	38	243	1,885		
Mountain Park	20	283	17	...	...	39	34	50	16	3	35	4	38	5	16	84	19	25	15	5	7	7	158	782	
Nordeg	6	104	...	...	...	20	12	1	13	10	1	...	169	2	13	13	3	3	3	3	7	2	35	84	253
Total	108	1,272	17	11	...	149	99	194	38	49	159	16	218	2,330	20	96	259	52	57	39	23	57	40	222	865	3,195	
SUMMARY																											
Domestic	327	758	360	2,377	...	406	114	25	135	109	18	172	4,794	44	147	393	99	29	26	29	37	43	305	1,152	5946		
Sub-Bituminous	29	226	28	59	...	22	29	15	2	3	22	2	16	453	15	32	97	26	21	9	8	17	28	362	815		
Bituminous	108	1,272	17	11	...	149	99	194	38	49	159	16	218	2,330	20	96	259	52	57	39	23	57	40	222	865	3,195	
Total	464	2,256	405	2,440	...	171	534	323	65	187	290	36	406	7,577	79	275	749	177	107	74	60	111	111	636	2,379	9,956	

THE MINES BRANCH

Men employed above and below ground in the DOMESTIC FIELD by areas each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Monthly Average
Ardley	77	78	49	30	3	23	26	30	57	81	86	79	52
Big Valley	17	17	16	12	9	4	4	3	11	16	20	15	12
Brooks	16	15	12	12	5	4	6	11	21	24	20	14	13
Camrose	128	128	89	67	44	44	48	57	95	113	125	123	83
Carbon	203	212	185	155	114	102	111	162	114	224	216	226	169
Castor	141	140	150	50	19	24	24	43	113	170	148	141	93
Champion	64	57	53	42	39	33	44	48	72	74	68	65	55
Drumheller	2,591	2,524	2,136	1,275	911	917	805	1,733	2,545	2,894	2,897	2,878	2,009
Edmonton	1,098	1,031	800	583	489	474	498	553	800	902	1,112	1,151	791
Gleichen	29	26	21	18	11	12	10	17	33	31	28	25	22
Halcourt	34	28	23	6	3	4	4	4	15	26	30	28	17
Lehrbridge	672	619	544	409	326	317	283	450	642	797	817	845	563
Magrath	3	5	5	6	3	3	3	6	6	6	6	6	5
Milk River	12	13	10	10	9	8	9	13	28	22	23	11	14
Pakan	16	17	16	12	8	3	6	4	11	10	10	10	10
Pakowki	17	17	16	12	8	3	6	7	11	8	10	8	10
Pembina	120	119	119	48	47	47	47	46	51	58	55	64	68
Redcliff	68	67	40	34	34	16	34	41	59	59	60	60	48
Rochester	18	11	11	3	3	3	3	4	4	4	9	9	9
Sexsmith	91	82	69	51	41	35	46	54	78	101	75	65	66
Sheerness	43	36	28	21	19	19	21	27	39	57	52	39	33
Taber	51	50	35	39	46	68	85	76	59	55	58	53	33
Tofield	9	9	9	2	4	4	4	4	5	9	10	11	7
Wetaskiwin	1	1	1	1	1	1	1	1	1	1	1	1	1
Whitcourt	11	9	8	5	4	4	4	3	4	9	7	14	7
No Area													
Total	5,535	5,324	4,381	2,891	2,188	2,161	2,127	3,392	4,858	5,751	5,933	5,944	4,219

Men employed above and below ground in the SUB-BITUMINOUS FIELD by areas each month:

Coalspur	491	473	477	379	317	311	344	360	458	483	477	473	420
Morley	14	14	12	...	8	10	11	10	12	17	12	13	5
Pekisko	6	7	6	6	5	2	2	3	4	7	8	8	12
Pincher	183	173	165	142	137	152	153	166	184	182	179	188	167
Prairie Creek	118	118	97	33	82	83	47	100	121	124	125	129	98
Saunders													
Total	812	785	757	568	549	558	557	639	779	819	807	815	707

Men employed above and below ground in the BITUMINOUS FIELD by areas each month:

Cascade	272	273	279	272	272	276	278	273	272	269	269	275	273
Crownest	1,865	1,880	1,884	1,885	1,904	1,898	1,885	1,886	1,885	1,898	1,900	1,885	1,888
Mountain Park	772	768	780	771	750	784	763	777	811	822	780	782	780
Nordegg	250	246	245	243	241	236	235	228	241	246	251	253	243
Total	3,159	3,167	3,188	3,171	3,167	3,194	3,161	3,164	3,209	3,241	3,200	3,195	3,184

Men employed above and below ground in the DOMESTIC, SUB-BITUMINOUS AND BITUMINOUS FIELDS by areas each month:

Domestic	5,535	5,324	4,381	2,891	2,188	2,161	2,127	3,392	4,858	5,751	5,933	5,944	4,219
Sub-Bituminous	812	785	757	568	549	558	557	639	779	819	807	815	707
Bituminous	3,159	3,167	3,188	3,171	3,167	3,194	3,161	3,164	3,209	3,241	3,200	3,195	3,184
Total	9,506	9,276	8,326	6,630	5,904	5,913	5,845	7,195	8,846	9,811	9,940	9,954	8,110

THE MINES BRANCH

PER CAPITA PRODUCTION OF MINES IN THE PROVINCE

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1906	1,385,000	2,800	494	2,000	692
1907	1,834,745	3,600	509	2,700	679
1908	1,845,000	3,780	488	2,681	688
1909	2,174,329	5,207	417	3,893	566
1910	3,036,757	5,818	504	4,090	742
1911	1,694,564	6,689	253	4,517	375
1912	3,446,349	6,661	517	4,861	708
1913	4,306,346	8,068	533	5,837	737
1914	3,821,739	8,170	467	6,052	631
1915	3,434,891	6,445	532	4,493	764
1916	4,648,604	7,570	614	5,536	839
1917	4,863,414	8,310	595	6,047	804
1918	6,148,620	8,818	697	6,141	1,001
1919	5,022,412	7,573	663	5,150	958
1920	6,908,923	9,688	712	6,551	1,055
1921	5,937,195	10,018	592	7,203	824
1922	5,976,432	8,757	683	6,154	971
1923	6,866,923	9,927	687	7,249	893
1924	5,202,713	7,317	711	5,299	982
1925	5,883,394	8,774	670	6,498	834
1926	6,508,908	8,763	743	6,569	991
1927	6,936,780	9,016	768	6,681	970
1928	7,334,179	9,496	772	6,625	1,107
1929	7,147,250	9,572	747	7,115	1,004
1930	5,755,911	8,889	648	6,607	871
1931	4,563,309	8,070	577	5,969	701
1932	4,867,984	7,837	621	5,772	844
1933	4,714,784	8,042	586	5,937	794
1934	4,748,848	7,863	604	5,809	744
1935	5,462,973	7,800	700	5,644	969
1936	5,696,375	8,110	702	5,940	959

PER CAPITA PRODUCTION OF MINES IN THE DOMESTIC COAL FIELD.

1910	878,011	2,307	380	1,676	524
1911	964,700	3,548	271	2,488	391
1912	1,341,389	2,980	450	2,283	587
1913	1,763,225	4,017	438	2,929	601
1914	1,697,401	4,219	402	3,190	532
1915	1,682,922	3,181	529	2,210	761
1916	2,172,801	4,132	525	3,137	692
1917	2,537,829	4,701	539	3,489	727
1918	3,035,061	4,896	619	3,420	887
1919	2,611,009	4,226	617	2,953	884
1920	3,359,308	5,173	647	3,723	902
1921	2,943,141	5,601	525	4,256	691
1922	3,086,669	4,981	620	3,752	823
1923	3,161,741	4,969	636	3,765	812
1924	3,096,660	4,543	681	3,447	898
1925	3,156,359	4,874	647	3,750	808
1926	3,160,029	4,798	658	3,714	816
1927	3,357,171	4,663	720	3,603	891
1928	3,378,200	4,810	702	3,700	873
1929	3,385,749	4,944	685	3,813	880
1930	2,874,090	4,822	596	3,756	765
1931	2,245,563	4,400	510	3,419	628
1932	2,574,785	4,548	566	3,539	728
1933	2,434,047	4,480	543	3,487	698
1934	2,295,566	4,289	535	3,370	644
1935:					
Sfp. Pit	130,084	96	1,355		
Below Ground	2,517,828	3,927	658	3,059	823
1936:					
Sfp. Pit	80,111	107	749		
Below Ground	2,761,120	4,112	671	3,243	851*

*See note on page 64.

**PER CAPITA PRODUCTION OF MINES IN THE SUB-BITUMINOUS
COAL FIELD.**

Year		Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed under- ground	Tons of coal mined per man employed under- ground
1922	Stp. Pit	367,514	217	1,692		
	B. Grd.	179,550	403	445	277	648
1923	Stp. Pit	288,467	190	1,513		
	B. Grd.	174,994	354	494	260	673
1924	Stp. Pit	369,724	211	1,752		
	B. Grd.	222,222	393	565	278	799
1925	Stp. Pit	335,993	162	2,074		
	B. Grd.	245,842	461	533	326	754
1926	Stp. Pit	258,964	147	1,761		
	B. Grd.	231,407	443	545	305	758
1927	Stp. Pit	304,584	193	1,583		
	B. Grd.	290,606	478	608	321	905
1928	Stp. Pit	394,682	179	2,205		
	B. Grd.	345,810	645	536	457	756
1929	Stp. Pit	319,764	163	1,962		
	B. Grd.	348,344	585	595	402	866
1930	Stp. Pit	304,144	157	1,937		
	B. Grd.	299,187	569	526	390	767
1931	Stp. Pit	280,251	161	1,803		
	B. Grd.	191,138	486	393	336	569
1932	Stp. Pit	348,266	177	1,868		
	B. Grd.	211,213	491	430	341	619
1933	Stp. Pit	309,365	170	1,820		
	B. Grd.	244,776	516	474	370	661
1934	Stp. Pit	302,054	153	1,912		
	B. Grd.	235,488	482	489	326	722
1935	Stp. Pit	287,970	180	1,600		
	B. Grd.	278,466	501	830	337	826
1936	Stp. Pit	263,899	175	1,508		
	B. Grd.	302,587	532	569	360	841*

*See note on page 64.

**PER CAPITA PRODUCTION OF MINES IN THE BITUMINOUS
COAL FIELD.**

1910	1,896,961	2,981	636	2,076	914
1911	649,745	2,645	246	1,820	357
1912	1,926,371	3,243	594	2,353	818
1913	2,374,401	3,562	666	2,645	897
1914	1,953,367	3,529	553	2,632	742
1915	1,626,237	2,921	557	2,103	773
1916	2,335,259	3,142	743	2,258	1,034
1917	2,206,868	3,335	661	2,429	909
1918	2,982,334	3,636	820	2,597	1,109
1919	2,325,787	3,118	745	2,100	1,108
1920	3,410,021	4,228	809	2,711	1,202
1921	2,897,580	4,133	701	2,820	1,026
1922	2,214,273	3,034	729	2,084	1,062
1923	3,241,614	4,345	746	3,215	1,008
1924	1,515,107	2,171	698	1,574	966
1925	2,145,200	3,277	654	2,422	885
1926	2,858,508	3,375	847	2,550	1,121
1927	2,984,419	3,682	810	2,757	1,082
1928	3,215,481	3,862	832	2,468	1,302
1929	3,093,393	3,880	797	2,898	1,077
1930	2,278,490	3,341	682	2,461	926
1931	1,846,357	3,023	611	2,214	834
1932	1,733,720	2,621	660	1,892	916
1933	1,726,596	2,876	600	2,080	830
1934	1,915,740	2,934	653	2,113	907
1935	2,248,625	3,096	726	2,248	1,000
1936	2,288,658	3,184	719	2,337	979

THE MINES BRANCH

PER CAPITA PRODUCTION OF MINES IN THE ANTHRACITE COAL FIELD.

Areas	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Average No. of men employed under-ground	Tons of coal mined per man employed under-ground
1910	261,785	530	493	338	774
1911	80,119	500	160	209	383
1912	178,589	438	407	225	793
1913	168,720	489	345	263	641
1914	170,971	422	405	230	743
1915	125,732	343	366	180	698
1916	140,544	296	474	141	996
1917	118,717	284	418	129	920
1918	131,225	286	458	124	1,058
1919	85,616	229	374	95	901
1920	130,594	287	455	117	1,116
1921	96,674	284	341	127	761
1922	40,417	112	361	41	986
1923	107	69	1	9	12

NOTE: *The table showing the number of men employed in the Anthracite Coal Field includes employees at the briquetting plant. There has been no anthracite coal produced since 1923.

During the year 1909, a strike, affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1911, a strike, affecting all the larger mines in the Province, lasted for a period of eight months.

During the year 1917 a strike, affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1919 a strike, affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1922 a strike, affecting all the larger mines in the Province, lasted for a period of five months.

During the year 1924 a strike, affecting all the larger mines in the Province, lasted for a period of six and one-half months.

NOTE: Calculating the total per capita production for men employed under-ground, the tonnage mined from stripping pits was deducted and only the tonnage produced from mines was used.

It will also be noted that the tonnage used in the above and following tables does not include tonnage extracted under permit.

Per Capita Production of Mines by areas:

DOMESTIC COAL FIELD

Area	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
Ardley	29,216	52	562	41	713
Big Valley	2,918	12	243	10	292
Brooks	9,668	13	744	5	1,934
Camrose	65,331	88	742	69	947
Carbon	108,369	169	641	135	803
Castor	45,307	93	487	82	553
Champion	22,160	55	403	49	452
Drumheller	1,439,905	2,009	717	1,583	910
Edmonton	543,014	791	686	656	828
Gleichen	9,886	22	449	18	549
Halcourt	3,479	17	205	15	232
Lethbridge	351,504	563	624	408	862
Magrath	856	5	171	4	214
Milk River	5,261	14	376	10	526
Pakan	823	10	82		
Pakowki	3,660	10	366	9	407
Pembina	53,948	68	793	45	1,199
Redcliff	35,971	48	749	37	972
Rochester	2,256	9	251	6	376
Sexsmith	44	1	44	1	44
Sheerness (Stripping)	40,095	47	853		
Sheerness (Underground)	7,210	19	379	16	451
Taber	12,588	33	381	29	434
Tofield (Stripping)	39,193	50	784		
Tofield (Underground)	3,652	6	609	4	913
Wetaskiwin	1,791	7	256	5	358
Whitcourt	153	1	153	1	153
No Area	2,913	7	416	5	583
Total	2,841,231	4,219	673	3,243	851*

SUB-BITUMINOUS COAL FIELD

Coalspur (Stripping)	263,899	175	1,508		
Coalspur (Underground)	124,867	245	510	160	780
Morley	123	5	25	4	31
Pekisko	5,005	12	417	9	556
Pincher	2,095	5	419	3	698
Prairie Creek	127,553	167	764	115	1,109
Saunders	42,944	98	438	69	622
Total	566,486	707	801	360	841*

*This figure arrived at by deducting the tonnage from stripping pits from gross tonnage mined and dividing the product by the number of men employed underground.

BITUMINOUS COAL FIELD

Cascade	166,665	273	610	195	855
Crownsnest	1,310,487	1,888	694	1,439	911
Mountain Park	655,139	780	840	539	1,215
Nordegg	156,367	243	643	164	953
Total	2,288,658	3,184	719	2,337	979

THE MINES BRANCH

Number of days on which Coal was drawn in the DOMESTIC FIELD by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley	21.43	21.36	10.40	9.00	4.50	7.00	5.60	9.00	13.80	21.31	18.50	15.00	156.90
Big Valley	18.50	16.83	14.00	7.40	7.25	10.00	7.00	10.00	19.50	16.60	16.00	15.00	159.68
Brooks	22.00	18.67	14.00	20.50	10.00	19.50	13.00	20.50	26.00	27.00	25.00	25.00	241.17
Camrose	21.25	20.88	14.14	13.60	16.00	17.00	14.67	14.60	22.00	18.00	17.75	20.00	210.77
Carbon	19.27	19.63	11.75	13.08	6.46	5.95	5.21	12.45	19.71	22.38	17.24	16.22	169.35
Castor	17.08	17.69	14.09	10.05	8.82	8.15	9.55	10.65	16.93	22.67	17.58	15.64	168.90
Champion	16.27	20.70	13.18	17.00	9.17	8.60	10.57	13.64	19.73	19.45	15.90	17.67	181.88
Drumheller	16.92	21.15	8.15	9.88	6.14	6.50	8.71	12.04	18.59	23.14	11.83	14.31	131.13
Edmonton	21.21	23.06	15.93	13.33	11.09	12.38	14.64	14.94	17.78	21.50	16.86	20.47	203.19
Gleichen	19.00	17.00	15.50	15.25	12.25	10.75	13.50	19.25	22.75	22.00	22.50	18.50	208.25
Halcourt	23.17	20.83	15.60	3.50	2.00	4.00	13.17	17.07	18.22	23.68	19.53	24.20	154.20
Lethbridge	17.88	19.88	16.31	13.56	19.29	14.17	7.33	12.50	15.00	21.00	18.00	16.81	209.57
Magrath	24.00	19.00	23.50	20.50	17.00	14.00	7.33	12.50	15.00	21.00	18.00	16.50	208.33
Milk River	24.00	16.67	15.67	13.67	7.67	13.00	9.33	14.00	23.33	22.33	19.67	7.00	177.34
Pakan	101.00							6.00	9.00	9.00	20.00	18.00	154.00
Pakowki	10.43	13.86	11.56	9.20	8.75	9.00	9.40	9.75	22.00	22.00	11.20	5.00	142.15
Pembina	21.67	21.67	14.50	11.50	12.00	14.00	9.00	11.00	11.00	15.00	11.00	14.33	166.47
Redcliff	19.50	22.50	13.50	7.00	7.50	1.00	9.00	10.00	25.50	26.50	19.50	19.50	181.00
Rochester	19.66	21.00	9.00		24.00					4.00	15.00	21.00	113.66
St. James												25.00	25.00
Sheerness	18.00	17.57	16.71	12.08	6.30	8.56	8.73	11.15	18.40	20.13	17.20	9.64	164.47
Tabor	16.82	20.11	14.00	12.23	9.30	8.63	11.00	13.75	21.89	19.89	13.78	13.67	175.29
Torfield	16.75	19.50	15.25	12.33	19.00	18.50	16.00	19.00	16.33	23.00	17.00	19.73	212.41
Wetaskiwin	18.33	21.33	11.67	15.00	17.50	4.50	5.00	11.15	17.50	23.00	12.67	16.30	175.95
Whitecourt	24.00	16.00	8.00	1.00						6.00	12.00	24.00	91.00
No Area	22.00	17.50	18.00	14.00	22.00			14.50		17.00	16.50	14.00	155.55
Average Total	22.45	19.35	13.93	11.51	11.49	10.25	10.02	12.87	18.93	19.56	16.93	16.48	183.77

Number of days in which Coal was drawn in the SUB-BITUMINOUS FIELD by areas each month:

Coalspur	16.17	18.50	13.50	13.83	16.00	6.25	7.50	15.75	17.00	19.00	17.17	17.33	178.00
Morley	14.75	13.75	16.33	18.00	10.50	7.67	17.33	17.00	16.25	26.50	25.00	23.00	74.50
Pekisko	20.00	13.50	16.00	11.50	4.00	5.00	9.00	10.00	15.00	22.50	20.00	12.50	174.08
Fincher	22.00	21.00	17.00	14.50	11.00	12.50	10.50	16.00	18.00	23.00	24.00	22.00	164.50
Prairie Creek	18.00	18.00	7.00	6.00	8.00	9.00	4.50	8.50	20.50	24.00	17.00	17.50	211.50
Saunders													158.00
Average Total	18.18	16.95	13.97	12.77	9.90	8.08	9.77	13.45	17.35	20.92	19.45	18.39	179.18

Number of days on which Coal was drawn in the BITUMINOUS FIELD by areas each month:

Cascade	20.50	21.00	18.00	18.00	7.00	10.50	10.50	16.00	20.00	19.50	18.50	20.50	200.00
Crownsnest	13.78	17.25	12.44	14.33	15.99	14.00	18.00	13.00	18.33	19.11	15.89	14.33	186.35
Mountain Park	18.33	17.33	16.67	13.33	13.33	12.67	11.33	14.67	16.67	19.67	17.33	20.00	192.67
Nordegg	11.00	14.00	15.00	8.00	7.00	6.00	6.00	6.00	8.00	14.00	16.00	12.00	123.00
Average Total	15.90	17.40	13.53	13.75	10.81	10.79	11.46	12.42	15.75	18.07	16.93	16.71	173.52

Number of days on which Coal was drawn each month:

Domestic	22.45	19.35	13.93	11.51	11.49	10.25	10.02	12.87	18.93	19.56	16.93	16.48	183.77
Sub-Bituminous	18.18	16.95	13.97	12.77	9.90	8.08	9.77	13.45	17.35	20.92	19.45	18.39	179.18
Bituminous	15.90	17.40	12.23	13.75	10.81	10.79	11.46	12.42	15.75	18.07	16.93	16.71	173.52
Average Total	18.84	17.90	13.81	12.68	10.73	9.71	10.42	12.91	17.34	19.52	17.77	17.19	178.82

THE MINES BRANCH

Total number of shifts worked above and below ground by areas during each month for the six months ending June 30, 1936:

DOMESTIC FIELD

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Ardley	290	1,283	403	1,351	172	316	155	204	3	12	109	227	1,132	3,393
Big Valley	78	196	78	164	53	128	29	54	17	43	15	25	270	610
Brooks	200	135	135	140	59	57	70	71	21	61	10	22	546	435
Camrose	675	2,092	626	2,243	307	1,113	222	861	182	612	189	615	2,201	7,537
Carbon	879	3,217	999	3,714	511	1,379	374	1,147	371	642	244	502	3,378	10,601
Castor	334	2,114	582	1,999	374	1,053	144	374	54	121	104	138	1,592	5,799
Champion	162	904	162	934	133	553	147	606	98	283	94	270	792	3,530
Drumheller	10,048	39,757	11,306	49,028	5,131	12,815	4,865	10,057	3,906	5,392	5,232	5,377	40,488	122,426
Edmonton	3,951	19,791	3,760	20,417	3,014	11,142	1,998	8,190	1,863	6,180	1,816	5,304	16,402	71,024
Gleichen	94	378	100	398	87	180	99	193	42	91	28	102	450	1,342
Halcourt	116	686	108	493	53	275	3	8	1	8	8	22	289	1,501
Lethbridge	4,315	9,010	3,928	10,626	3,853	6,093	2,179	4,666	2,673	2,998	3,049	3,436	19,997	36,729
Magrath	12	60	5	93	22	93	7	58	2	15	4	10	52	329
Milk River	54	84	64	104	67	77	52	82	23	20	29	21	289	388
Pakan	283	...	...	...	...	...	...	...	...	...	...	...	283	...
Pakowki	12	118	20	136	31	92	18	55	20	51	3	7	104	459
Pembina	938	1,241	928	1,332	768	1,035	178	386	160	320	250	410	3,222	4,724
Redcliff	273	1,036	262	1,237	123	392	41	232	49	188	5	15	753	3,100
Rochester	91	214	60	132	27	41	5	25	42	...	...	...	225	432
Sheerness	1,202	451	1,028	371	840	241	657	153	227	73	661	55	4,615	1,344
Torbet	141	454	131	500	97	276	61	187	56	132	132	161	60	546
Turf	925	114	872	119	589	51	645	24	1,131	76	1,682	2	5,844	308
Wetaskiwin	36	152	55	146	30	83	5	25	19	76	2	12	147	494
Whitcourt	24	68	24	16	2	6	1	2	14	30	...	...	3	48
No Area	20	...	50	141	30	42	18	38	...	...	...	...	132	319
Total	25,139	83,579	25,662	95,854	16,373	37,533	11,973	27,707	10,974	17,197	13,641	16,732	103,762	278,602

Total number of shifts worked above and below ground by areas during each month for the six months ending December 31, 1936:

DOMESTIC FIELD

Areas	July		August		September		October		November		December		Total, July to December		Total for year 1936	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Ardley	50	153	185	360	330	932	453	1,278	344	1,038	320	790	1,682	4,551	2,814	7,944
Big Valley	24	24	20	40	47	120	60	220	55	198	61	180	267	782	537	1,392
Brooks	81	24	121	78	165	172	420	214	220	149	160	129	1,167	766	1,713	1,201
Camrose	214	539	271	792	490	1,363	684	2,112	567	1,747	728	2,153	2,954	8,706	5,155	16,243
Carbon	377	456	559	1,556	1,004	2,896	1,207	4,143	896	2,918	925	2,422	4,968	14,391	8,346	24,982
Castor	90	286	226	358	402	1,438	635	2,701	456	1,875	468	1,539	2,277	5,162	3,869	13,996
Champion	159	480	146	573	226	1,208	261	1,248	192	856	188	797	1,172	3,197	1,964	8,712
Drumheller	5,125	6,205	6,765	16,229	10,183	36,752	13,563	57,356	8,655	28,673	9,271	36,676	53,562	181,891	94,050	304,317
Edmonton	1,960	5,290	2,192	6,956	2,597	11,690	3,465	16,546	3,365	16,199	3,671	19,577	17,250	76,258	33,652	147,282
Gleichen	38	99	65	207	115	486	134	486	100	441	87	325	539	2,144	989	3,486
Halcourt	25	53	25	53	42	168	92	425	125	521	142	545	426	1,712	715	3,213
Lethbridge	2,680	2,975	3,518	5,243	4,078	11,943	4,908	15,394	3,588	9,735	3,311	8,094	22,083	53,384	42,080	90,713
Magrath	13	29	17	86	24	66	32	79	26	82	19	48	131	390	183	719
Milk River	26	27	61	101	352	300	205	295	50	224	15	77	709	1,024	998	1,412
Pakan	24	24	24	24	24	24	24	24	24	24	18	18	86	86	379	379
Pakowki	18	71	15	41	43	217	55	202	25	90	10	33	166	654	270	1,113
Pembina	210	360	205	346	226	644	502	578	315	383	335	627	1,793	2,938	5,015	7,662
Redcliff	118	236	92	341	398	1,030	389	1,142	243	890	214	892	1,454	4,531	2,207	7,631
Rochester	...	...	...	...	...	...	4	12	42	108	25	110	113	230	340	662
Sexsmith	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	579	83	424	134	876	299	1,705	386	923	327	708	143	5,215	1,372	9,830	2,716
Taber	60	144	77	289	123	594	211	717	103	458	120	432	694	2,634	1,240	4,344
Tofield	1,926	2,133	2,133	1,043	1,043	28	1,060	115	857	184	806	432	7,825	416	13,669	724
Wetaskiwin	3	14	8	37	20	65	40	125	32	50	47	155	150	486	297	980
Whitecourt	...	...	...	...	...	...	1	5	3	9	4	20	8	34	11	82
No Area	...	...	29	61	...	...	34	109	33	85	47	63	143	318	275	637
Total	13,751	17,495	17,178	33,881	22,784	72,411	30,144	105,988	21,235	67,230	21,769	75,966	126,861	372,971	230,623	651,573

SUB-BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Coalspur	6,237	3,429	6,193	3,718	5,658	1,935	5,526	838	5,287	701	5,184	401	34,085	11,022
Pekisko	51	212	41	185	46	167	36	132	31	81	42	73	247	850
Pincher	41	70	30	73	38	68	25	50	8	14	5	5	147	280
Prairie Creek	1,371	2,720	1,347	2,557	1,094	2,348	843	2,018	702	1,817	889	2,130	6,246	13,590
Saunders	666	1,632	657	1,570	295	496	161	268	317	563	317	563	2,413	5,092
Total	8,366	8,063	8,268	8,103	7,131	5,014	6,591	3,306	6,345	3,176	6,437	3,172	43,138	30,834

BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Cascade	1,839	3,542	1,824	3,554	1,626	2,672	1,600	2,616	1,655	2,697	1,559	2,619	10,103	17,700
Crownsnest	7,829	18,905	8,929	22,185	8,283	19,933	8,319	19,470	9,350	21,046	8,250	19,764	50,370	121,303
Mountain Park	5,123	12,080	4,865	11,204	4,842	11,346	4,188	10,147	4,534	9,073	4,155	9,013	27,707	62,863
Nordegg	1,378	2,147	1,847	2,689	1,906	2,798	1,412	1,603	1,355	1,469	1,568	1,309	9,466	12,015
Total	16,169	36,674	17,465	39,632	16,657	36,749	15,519	33,836	16,904	34,285	15,532	32,705	98,246	213,881

TOTAL DOMESTIC, SUB-BITUMINOUS AND BITUMINOUS FIELDS

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Domestic	25,139	83,579	25,662	95,854	16,373	37,533	11,973	27,707	10,974	17,197	13,641	16,732	103,762	278,602
Sub-Bituminous	8,366	8,063	8,268	8,103	7,131	5,014	6,591	3,306	6,345	3,176	6,437	3,172	43,138	30,834
Bituminous	16,169	36,674	17,465	39,632	16,657	36,749	15,519	33,836	16,904	34,285	15,532	32,705	98,246	213,881
Total	49,674	128,316	51,395	143,589	40,161	79,296	34,083	64,849	34,223	54,658	35,610	52,609	245,146	523,317

Total number of shifts worked above and below ground by areas during each month for the six months ending December 31, 1936:

SUB-BITUMINOUS COAL FIELD

Areas	July		August		September		October		November		December		Total July to December		Total for year 1936	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Coalspur	3,501	1,083	5,412	1,766	7,201	3,034	7,947	3,620	7,600	3,498	6,963	3,481	38,624	16,482	72,709	27,504
Morley	44	157	41	161	53	177	53	265	25	124	10	82	88	471	88	471
Pekisko	9	9	10	20	98	70	71	184	51	147	43	143	281	969	528	1,819
Fincher Creek	836	1,689	1,088	2,438	1,150	2,403	1,236	2,835	1,358	3,293	1,229	3,117	6,897	15,775	13,143	29,365
Saunders	215	288	426	686	669	1,841	826	2,175	634	1,510	642	1,719	3,412	8,219	5,825	13,311
Total	4,605	3,226	6,977	5,071	9,171	7,525	10,182	9,180	9,713	8,662	8,935	8,626	49,583	42,290	92,721	73,124

BITUMINOUS COAL FIELD

Areas	July		August		September		October		November		December		Total July to December		Total for year 1936	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Cascade	1,696	2,603	1,705	2,564	1,801	3,215	1,834	3,160	1,697	2,980	1,883	3,380	10,616	17,902	20,719	35,602
Crowsnest	9,386	23,071	8,459	20,193	9,390	23,687	10,763	25,063	9,840	22,452	9,174	20,940	57,012	135,406	107,982	256,709
Mountain Park	3,972	7,595	4,381	10,157	4,769	11,338	5,072	12,444	4,216	9,568	5,417	13,880	27,827	64,382	55,534	127,845
Nordeggs	1,382	985	1,222	1,448	2,265	1,595	2,004	2,639	2,188	3,048	1,989	2,320	11,050	12,035	20,516	24,050
Total	16,436	34,254	15,767	34,362	18,225	39,835	19,673	43,306	17,941	38,048	18,463	40,520	106,505	230,325	204,751	444,206

TOTAL DOMESTIC, SUB-BITUMINOUS AND BITUMINOUS COAL FIELDS

Areas	July		August		September		October		November		December		Total July to December		Total for year 1936	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Domestic	13,751	17,495	17,178	33,881	22,784	72,411	30,144	105,988	21,235	67,230	21,769	75,966	126,861	372,971	230,623	651,573
Sub-Bituminous	4,605	3,226	6,977	5,071	9,171	7,525	10,182	9,180	9,713	8,662	8,935	8,626	49,583	42,290	92,721	73,124
Bituminous	16,436	34,254	15,767	34,362	18,225	39,835	19,673	43,306	17,941	38,048	18,463	40,520	106,505	230,325	204,751	444,206
Total	34,792	54,975	39,922	73,314	50,180	119,771	159,999	158,474	48,889	113,940	49,167	125,112	282,949	645,586	528,095	1,168,903

THE MINES BRANCH

Amount of Mine Timber used during the year:

DOMESTIC COAL FIELD

Areas	Round Timber, linear feet	Lumber B.M.	Ties, linear feet	Lagging, linear feet	Slabs, cords	Cog- wood, cords
Ardley	56,484					
Big Valley	19,045					
Brooks	27,680					
Camrose	327,027					
Carbon	457,350	4,000				
Castor	145,480	2,000				
Champion	105,981	1,520				
Drumheller	5,427,857		90,256		37	
Edmonton	2,544,283		114,414		184	25
Gleichen	33,846					
Halcourt	25,160					
Lethbridge	1,134,559	499,331	212,933			
Magrath	5,040	5,200				
Milk River	14,950					
Pakan						
Pakowki	10,760					
Pembina	112,820			3,180		
Redcliff	81,212					
Rochester	3,600					
Sexsmith						
Sheerness	25,640					
Taber	42,102			600		
Tofield	2,700					
Wetaskiwin	3,500					
Whitecourt	800					
No Area	16,400					
Total	10,624,276	512,051	417,603	3,780	221	25

SUB-BITUMINOUS COAL FIELD

Coalspur	170,598					
Morley	2,300					
Pekisko	9,133					
Pincher	10,600					
Prairie Creek	416,363		315		4½	
Saunders	176,200	12,000	41,000	30,000		
Total	785,191	12,000	41,315	30,000	4½	

BITUMINOUS COAL FIELD

Cascade	282,036			72,862		
Crowsnest	2,769,157	1,336,342		727,041		
Mountain Park	724,250					
Nordegg	582,780					
Total	4,358,223	1,336,342		799,903		

Particulars of Lamps in the Domestic Coal Field

	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936
Portable Electric Lamps, Edison Cap Type	780	744	1,207	1,592	1,800	2,627	2,530	2,581	2,521	2,634	2,556	2,792	2,310
Portable Electric Lamps, Ceag Hand Type	43	43											
Portable Electric Lamps, Wico Cap Type	569	560	275										
Portable Electric Lamps, Oldham Cap Type	25	40											
Portable Electric Lamps, Wolfe Cap Type	152	147	108	108	106	157	171	66	66		66		
Safety Lamps, Wolfe Flame Type	6	8	4	3				160	174	242	191	244	308
Safety Lamps, Koehler Flame Type										3		3	
Total	1,575	1,542	1,594	1,703	1,906	2,784	2,701	2,807	2,761	2,879	2,813	3,039	2,618

Particulars of Lamps in the Sub-Bituminous Coal Field

Portable Electric Lamps, Edison Cap Type	62	41	120	120	140	161	184	387	350	357	453	275	297
Safety Lamps, Wolfe Flame Type		110	42	39	45	37	25	51	59	39	46	39	38
Total	62	151	162	159	185	198	209	438	409	396	499	314	335

Particulars of Lamps in the Bituminous Coal Field

Portable Electric Lamps, Edison Cap Type	3,485	2,952	3,024	3,378	3,510	3,310	3,458	4,458	3,005	2,922	2,638	2,743	2,607
Portable Electric Lamps, Wheat Electric Cap Type					11	12							
Portable Electric Lamps, Wolfe Electric Cap Type					20	20	20	7			20		25
Safety Lamps, Wolfe Flame Type	894	703	554	633	468	363	345	353	337	318	329	324	327
Safety Lamps, Koehler Flame Type				8									
Total	4,379	3,655	3,578	4,019	4,019	3,705	3,823	4,818	3,342	3,240	2,987	3,067	2,959

THE MINES BRANCH

Quantity of Explosives used in pounds for blasting coal:

DOMESTIC COAL FIELD

Areas	Names of Explosives							Total
	Pellets	Polar Monobel No. 4	Polar Monobel No. 6	Polar Monobel No. 12	Polar Monobel No. 14	Loose Black Powder	40% Dynamite	Stumping Powder
Ardley	16,337	750	.....	.....	.....	.....	.....	.....
Big Valley	1,038	.....	.....	.....	.....	.....	.....	.....
Brooks	4,800	.....	.....	.....	.....	.....	.....	.....
Camrose	25	500	.....	.....	.....	.....	.....	.....
Carbon	23,562	.....	10	.....	.....	.....	.....	.....
Castor	8,794	.....	.....	.....	.....	.....	.....	.....
Champion	14,235	.....	.....	.....	.....	.....	.....	.....
Drumheller	214,790	5,050	20	2	14,809	.....	1,250	500
Edmonton	26,904	7,725	.....	762	21,936	.....	.....	230
Gleichen	3,450	.....	.....	.....	.....	.....	.....	.....
Halcourt	50	.....	.....	.....	.....	.....	.....	125
Lethbridge	14,350	.....	800	19,500	13,750	.....	.....	.....
Magrath	200	400	.....	.....	50	.....	.....	.....
Milk River	3,550	1,400	.....	.....	.....	.....	.....	.....
Pakowki	705	50	.....	.....	.....	.....	.....	.....
Pembina	40	1,975	.....	.....	130	.....	.....	57
Redcliff	4,500	.....	.....	.....	1,450	.....	.....	.....
Sheerness	7,633	.....	.....	.....	16	.....	.....	.....
Taber	4,302	.....	.....	.....	35	.....	.....	.....
Tofield	120	.....	.....	.....	.....	3,025	25	530
Wetaskiwin	12	.....	.....	.....	.....	.....	.....	5
Whitecourt	50	.....	.....	.....	.....	.....	.....	.....
No Area .....	.....	.....	.....	.....	115	.....	.....	.....
Total	349,447	17,850	830	20,264	52,291	3,025	1,275	1,447

SUB-BITUMINOUS COAL FIELD

Areas	Names of Explosives						Total
	Pellets	Polar Monobel No. 4	Polar Monobel No. 6	Polar Monobel No. 12	Polar Monobel No. 14	35% Polar Forcite	
Coalspur .....	.....	28,994	.....	.....	.....	41,450	70,444
Pekisko .....	.....	515	.....	.....	1,355	.....	1,870
Pincher .....	.....	.....	812	.....	.....	.....	812
Prairie Creek	4,337	61,379	.....	.....	.....	.....	65,716
Saunders	6,040	.....	.....	4,842	.....	.....	10,882
Total	10,377	90,888	812	4,842	1,355	41,450	149,724

BITUMINOUS COAL FIELD

Areas	Names of Explosives				Total
	Pellets	Polar Monobel No. 4	Polar Monobel No. 6	Polar Monobel No. 14	
Cascade .....	..	48,150	2,892	30	51,072
Crownsnest	50	20,230	.....	.....	20,280
Mountain Park .....	.....	18,450	61,113	60	79,623
Nordegg .....	.....	3,500	.....	500	4,000
Total	50	90,330	64,005	590	154,975

Number of tons of coal produced per pound of Explosive used for
blasting coal:

DOMESTIC COAL FIELD

Areas	Number of tons mined	Number of pounds of explosive used	Tons of coal mined per pound of explosive used
Ardley	29,216	17,087	1.71
Big Valley	2,918	1,038	2.81
Brooks	9,668	4,800	2.01
Camrose	65,331	525	124.44
Carbon	108,369	23,572	4.60
Castor	45,307	8,794	5.15
Champion	22,160	14,235	1.56
Drumheller	1,439,905	236,421	6.09
Edmonton	543,014	57,557	9.43
Gleichen	9,886	3,450	2.87
Halcourt	3,479	175	19.88
Lethbridge	351,564	48,400	7.26
Magrath	856	650	1.32
Milk River	5,261	4,950	1.06
Pakan	823	...	...
Pakowki	3,660	755	4.85
Pembina	53,948	2,202	24.50
Redcliff	35,971	5,950	6.05
Rochester	2,256	...	...
Sexsmith	44	...	...
Sheerness	47,305	7,649	6.18
Taber	12,588	4,337	2.90
Tofield	42,845	3,700	11.58
Wetaskiwin	1,791	17	105.35
Whitecourt	153	50	3.06
No Area	2,913	115	25.33
Total	2,841,231	446,429	6.36

SUB-BITUMINOUS COAL FIELD

Coalspur	388,766	70,444	5.52
Morley	123	...	...
Pekisko	5,005	1,870	2.68
Pincher	2,095	812	2.58
Prairie Creek	127,553	65,716	1.94
Saunders	42,944	10,882	3.95
Total	566,486	149,724	3.78

BITUMINOUS COAL FIELD

Cascade	166,665	51,072	3.26
Crownsnest	1,310,487	20,280	64.62
Mountain Park	655,139	79,623	8.23
Nordegg	156,367	4,000	39.09
Total	2,288,658	154,975	14.77

THE MINES BRANCH

Estimated number of shots fired for Blasting Coal:

DOMESTIC COAL FIELD

Areas	Electric Deton- ators	Electric Squibs	Fuse	Squibs	Total
Ardley	300		13,543		13,843
Big Valley			1,570	50	1,620
Brooks				2,650	2,650
Camrose	840		600		1,440
Carbon			26,714	1,305	28,019
Castor			7,747	727	8,474
Champion			6,093	10,410	16,503
Drumheller	38,784	104,925	108,855		252,564
Edmonton	18,195	4,655	65,562		88,412
Gleichen			2,796	250	3,046
Halcourt			450		450
Lethbridge	60,700	100	100	12,414	73,314
Magrath			705	400	1,105
Milk River			4,840	900	5,740
Pakowki			219	825	1,044
Pembina	1,788		260		2,048
Redcliff	2,000		80	3,000	5,080
Sheerness		825	1,786	1,595	4,206
Taber			428	4,680	5,108
Tofield			2,549		2,549
Wetaskiwin			70		70
Whitcourt			90		90
No Area	149				149
Total	122,756	110,505	245,057	39,206	517,524

SUB-BITUMINOUS COAL FIELD

Coalspur	32,538		50		32,588
Pekisko	1,725		996		2,721
Pincher	1,340				1,340
Prairie Creek	69,937				69,937
Saunders			10,971		10,971
Total	105,540		12,017		117,557

BITUMINOUS COAL FIELD

Cascade	69,050				69,050
Crowsnest	19,016		1,000		20,016
Mountain Park	74,888				74,888
Nordegg	7,940				7,940
Total	170,894		1,000		171,894

Number of miss-fire shots recorded in blasting coal in the Province:

DOMESTIC COAL FIELD

Areas	Electric Deton- ators	Electric Squibs	Fuse	Squibs	Total
Ardley			28		28
Camrose			6		6
Carbon			11		11
Castor			13	2	15
Champion			6	2	8
Drumheller	10	42	41		93
Edmonton	3		78		81
Gleichen			3		3
Lethbridge	1				1
Milk River			1		1
Redcliff			1	8	9
Sheerness			2	9	11
Taber			2		2
Tofield			15		15
Wetaskiwin			6		6
Total	14	42	213	21	290

SUB-BITUMINOUS COAL FIELD

Coalspur	8				8
Saunders			2		2
Total	8		2		10

BITUMINOUS COAL FIELD

Cascade	3				3
Crowsnest	8		1		9
Mountain Park	10				10
Total	21		1		22

Quantity of Explosives used in pounds for blasting rock in Coal-mines in the Province:

Areas	Names of Explosives								Total		
	Pellets	Polar Monobel No. 4	Polar Monobel No. 6	Polar Monobel No. 12	Polar Monobel No. 14	Stumping Powder	40% Dynamite	Polar Forcite 60%		Polar Forcite 35%	C.X.L.-ite
Ardley	620									620
Brooks	170						487	50		220
Carbon								150		637
Cascade		1,400							5,830	7,230
Castor							2			2
Champion	118						50		246	414
Coalspur	183							18,600		32,115½
Crowsnest							50	55,043		66,600½
Drumheller	1,700	4,975			150			6,270	4,000	7,250	24,345
Edmonton	45			700	250					995
Halcourt					400					400
Lethbridge	15	750		30			70				865
Mountain Park		12,530					49,550		17,335	79,415
Nordegg									175	175
Pekisko				40						90
Pembina	10		30			50				40
Prairie Creek										2,229
Saunders			800			2,229			1,600	2,400
Sheerness										50
Taber	50				116						116
Wetaskiwin							20			20
Total	1,765	6,871	13,930	830	1,036	650	9,208	122,063	18,600	44,026	218,979

Estimated number of shots fired for blasting rock in Coal-mines in the Province:

Areas	Electric Detonators	Fuse	Squibs	Total
Ardley		620		620
Brooks	5	200		205
Carbon		762		762
Cascade	7,400			7,400
Castor		4		4
Champion		1,018		1,018
Coalspur	4,423	2,800		7,223
Crowsnest	27,359	73		27,432
Drumheller	3,395	8,955		12,350
Edmonton	771	760		1,531
Halcourt		1,600		1,600
Lethbridge	800	50	20	870
Mountain Park	36,531			36,531
Nordegg	760			760
Pekisko		220		220
Pembina		33		33
Prairie Creek	3,107			3,107
Saunders		2,070		2,070
Sheerness		100		100
Taber		185		185
Wetaskiwin		25		25
Total	84,551	19,475	20	104,046

Number of miss-fire shots recorded in blasting rock in Coal-mines in the Province:

Crowsnest	23	2		25
Drumheller		4		4
Edmonton	2			2
Halcourt		8		8
Mountain Park	10			10
Pekisko		3		3
Saunders		3		3
Wetaskiwin		1		1
Total	35	21		56

ELECTRICITY

The rules for the installation and use of electricity in or about mines require a return to be made to the Department on or before January 15th of each year, giving size, type and any other particulars which may be required of electrical apparatus in use above and below ground. According to the returns received from the different mines, electricity was used in 79 different mines in 1936. A summary of these returns regarding the horse-power of electrical apparatus in use is given below:

Areas	No. of mines using Electricity	Horse-power of Electrical Apparatus in use		Total Horse-power
		Above Ground	Below Ground	
Ardley .....	.1	53	60	113
Big Valley	1	25	60	85
Camrose	1	15	7½	22½
Carbon	5	157	267	424
Cascade	1	705	175	880
Coalspur	5	1,251	405	1,656
Crowsnest	6	12,464	2,295	14,759
Drumheller	27	3,928	5,602½	9,530½
Edmonton	9	814	959½	1,773½
Gleichen	1	2	5	7
Lethbridge	7	874½	1,547	2,421½
Mountain Park	3	1,649	1,430	3,079
Nordegg	1	1,200½	80	1,280½
Pembina	3	167	293½	460½
Prairie Creek	2	96½	221	317½
Redcliff	2	130	90	220
Saunders	2	116½	173	289½
Taber	2	45	71	116
Total	79	23,693	13,742	37,435

COAL-CUTTING MACHINERY

Areas	No. of machines operated by		Tons of coal mined by	
	Elec-tricity	Com-pressed air	Elec-tricity	Com-pressed air
Ardley	2	2	20,000	1,120
Big Valley	1		827	
Carbon	6	1	96,008	216
Coalspur		11		54,235
Crowsnest		193*		291,326
Drumheller	100	1	1,337,910	4,597
Edmonton	17	4	324,284	10,688
Gleichen		1		4,000
Lethbridge	18	8	279,896	30,993
Mountain Park		1		9,943
Pembina	3		18,169	
Prairie Creek	3		31,434	
Redcliff	3		35,270	
Saunders	2	8	10,100	32,844
Taber	2	2	4,515	735
Total	149	232	2,158,413	440,697

*Compressed air operated 192 picks.

ACCIDENTS

Summary table showing Accidents occurring in Mines from
1906 to 1936 inclusive:

Year	Output	Accidents			Tons of coal mined per accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1906	1,385,000	10	11	20	138,500	125,909	60,250
1907	1,834,745	19	18	68	96,565	101,930	26,961
1908	1,845,000	11	38	13	167,727	48,552	141,923
1909	2,174,329	9	42	18	241,952	51,769	120,796
1910	3,036,757	61*	41	58	49,782	71,067	52,375
1911	1,694,564	7	32	45	242,080	52,955	37,656
1912	3,446,349	21	38	58	164,111	90,693	59,419
1913	4,306,346	28	60	83	152,789	71,772	51,883
1914	3,821,739	209†	44	50	18,286	86,857	76,434
1915	3,434,891	18	33	33	190,827	104,087	104,087
1916	4,638,604	20	51	34	232,430	91,149	136,723
1917	4,863,414	24	62	39	202,642	78,442	124,703
1918	6,148,620	22	60	77	279,483	102,477	79,860
1919	5,022,412	21	56	54	239,162	89,685	93,008
1920	6,908,923	29	53	38	238,733	130,371	181,814
1921	5,937,195	21	64	25	282,721	92,769	237,488
1922	5,976,432	35	38	35	170,755	157,274	170,755
1923	6,866,923	22	44	10	312,133	156,066	686,692
1924	5,203,713	21	42	40	247,796	123,898	130,093
1925	5,883,394	30	59	56	196,113	99,718	105,060
1926	6,508,908	39	67	119	166,398	97,148	54,696
1927	6,936,780	26	76	115	266,799	91,273	60,320
1928	7,334,179	28	71	122	261,935	103,298	60,166
1929	7,147,250	31	69	98	230,556	103,583	72,931
1930	5,755,911	11	69	97	523,265	83,419	59,339
1931	4,563,309	16	75	73	285,207	60,844	62,511
1932	4,867,984	11	61	96	442,544	79,803	50,708
1933	4,714,784	6	60	109	785,797	78,580	43,255
1934	4,748,848	15	68	70	316,589	69,836	67,840
1935	5,462,973	35‡	66	113	156,085	82,772	48,352
1936	5,696,375	11	79	101	517,852	72,106	56,400
Total	148,166,651	867	1,647	1,967	170,896	89,962	75,326

*Including thirty-one deaths caused by the Bellevue Explosion.

†Including one hundred and eighty-nine deaths caused by the Hillcrest Explosion.

‡Including sixteen deaths caused by the explosion at Lethbridge Collieries, Limited, Coalhurst.

Accidents during 1936, classified according to the Coal Field in which
they occurred:

Domestic	2,841,231	5	60	72	568,246	47,354	39,462
Sub-Bituminous	566,486	...	4	6	...	141,622	94,414
Bituminous	2,288,658	6	15	23	381,443	152,577	99,507

THE MINES BRANCH

Comparison of Accidents per 1,000,000 tons and per 1,000 men employed, 1915-1936.

Year	Tonnage	Total No. of men employed	Fatal Accidents			Serious Accidents			Slight Accidents			Total		
			No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed
1915	3,434,891	6,445	18	5.24	2.79	33	9.63	5.12	33	9.63	5.12	84	24.45	13.03
1916	4,538,604	7,570	20	4.31	2.64	51	10.99	6.74	34	7.33	4.49	105	22.61	13.87
1917	4,863,414	8,310	24	4.93	2.88	62	12.75	7.46	39	8.02	4.69	125	25.91	15.04
1918	6,148,620	8,774	22	3.57	2.51	60	9.95	6.84	77	12.52	8.78	159	25.85	18.12
1919	5,022,412	7,573	21	4.18	2.78	56	11.35	7.39	54	10.75	7.13	131	26.28	17.30
1920	6,908,923	8,688	20	4.20	2.99	53	17.81	6.10	38	5.50	4.37	120	17.37	13.81
1921	5,937,195	10,010	21	3.54	2.10	64	10.78	6.39	25	4.23	2.50	110	18.53	10.99
1922	5,976,432	8,847	35	5.86	4.09	38	6.36	4.45	35	5.86	4.09	108	18.07	12.64
1923	6,866,923	9,827	22	3.19	2.21	44	6.39	4.43	10	1.45	1.00	76	11.07	7.65
1924	5,203,713	7,317	21	4.03	2.86	42	8.07	5.74	40	7.68	5.47	103	19.79	14.35
1925	5,683,394	8,774	30	5.10	3.40	59	10.03	3.42	56	9.52	6.38	145	24.65	16.53
1926	6,508,908	8,763	*39	5.99	4.99	67	10.29	7.65	119	10.33	13.58	225	34.57	25.68
1927	9,936,780	9,016	26	3.75	2.88	76	10.96	8.43	115	16.50	12.71	217	31.28	24.06
1928	7,334,179	9,496	28	3.82	2.96	71	9.68	7.48	122	16.63	12.85	221	30.12	23.27
1929	7,147,250	9,572	31	4.34	3.24	69	9.65	7.21	98	13.71	10.24	198	27.70	20.30
1930	5,755,911	8,889	11	1.91	1.24	69	11.99	7.76	97	17.20	10.90	177	30.75	19.91
1931	4,563,309	8,070	16	3.51	1.98	75	16.44	9.27	73	16.00	9.04	164	35.92	20.32
1932	4,867,984	7,837	11	2.26	1.40	61	12.53	7.78	96	19.72	12.25	168	34.51	21.43
1933	†4,714,784	8,042	6	1.27	1.75	60	12.73	7.46	109	20.99	13.55	175	37.12	21.76
1934	†4,748,848	7,863	15	3.14	1.91	68	14.31	8.65	70	14.74	8.90	153	32.21	19.45
1935	†5,462,973	7,824	†35	6.40	4.47	66	12.08	8.44	113	20.68	14.44	214	39.17	27.35
1936	†5,696,375	8,110	11	1.93	1.36	79	13.87	9.74	101	17.73	12.45	191	33.53	23.55

*Including 10 deaths by explosion at McGillivray Creek Coal & Coke Co., Ltd.

†Output does not include coal produced by farmers under permit.

‡Including 16 deaths by explosion at Lethbridge Collieries, Ltd., Coalhurst.

Number of tons produced per accident:

DOMESTIC COAL FIELD

Areas	Output	Average No. of men employed	No. of tons produced per accident			
			Fatal	Serious	Slight	Total
Ardley	29,216	52	.....	.....	29,216	29,216
Big Valley	2,918	12	.....	.....	.....	.....
Brooks	9,668	13	.....	.....	.....	.....
Camrose	65,331	88	.....	32,666	.....	32,666
Carbon	108,369	169	.....	108,369	.....	108,369
Castor	45,307	93	.....	45,307	15,102	11,327
Champion	22,160	55	.....	22,160	22,160	11,080
Drumheller	1,439,905	2,009	719,953	53,330	57,596	26,665
Edmonton	543,014	791	271,507	45,251	18,100	12,341
Gleichen	9,886	22	.....	.....	.....	.....
Halcourt	3,479	17	.....	.....	.....	.....
Lethbridge	351,564	563	351,564	29,297	58,594	18,503
Magrath	856	5	.....	.....	.....	.....
Milk River	5,261	14	.....	.....	5,261	5,261
Pakan	823	10	.....	.....	.....	.....
Pakowki	3,660	10	.....	.....	.....	.....
Pembina	53,948	68	.....	26,974	17,983	10,790
Redcliff	35,971	48	.....	.....	.....	.....
Rochester	2,256	9	.....	.....	.....	.....
Sexsmith	44	1	.....	.....	.....	.....
Sheerness	47,305	66	.....	23,653	.....	23,653
Taber	12,588	33	.....	.....	12,588	12,588
Tofield	42,845	56	.....	.....	.....	.....
Wetaskiwin	1,791	7	.....	.....	.....	.....
Whitecourt	153	1	.....	.....	.....	.....
No Area	2,913	7	.....	.....	2,913	2,913
Total	2,841,231	4,219	568,246	47,354	39,462	20,739

SUB-BITUMINOUS COAL FIELD

Coalspur	388,766	420	.....	129,589	97,192	55,538
Morley	123	5	.....	.....	.....	.....
Pekisko	5,005	12	.....	.....	5,005	5,005
Pincher	2,095	5	.....	.....	.....	.....
Prairie Creek	127,553	167	.....	127,553	.....	127,553
Saunders	42,944	98	.....	.....	42,944	42,944
Total	566,486	707	.....	141,622	94,414	56,649

BITUMINOUS COAL FIELD

Cascade	166,665	273	166,665	166,665	27,778	20,833
Crowsnest	1,310,487	1,888	262,097	187,212	163,811	65,524
Mountain Park	655,139	780	.....	109,190	93,591	50,395
Nordegg	156,367	243	.....	156,367	78,183	52,122
Total	2,288,658	3,184	381,443	152,577	99,507	52,015

SUMMARY

Domestic	2,841,231	4,219	568,246	47,354	39,462	20,739
Sub-Bituminous	566,486	707	.....	141,622	94,414	56,647
Bituminous	2,288,658	3,184	381,443	152,577	99,507	52,015
Total	5,696,375	8,110	517,852	72,106	56,400	29,824

THE MINES BRANCH

Classification of Accidents according to outputs of mines which produced during the year 1936:

	Under 1,000 tons	From 1,000 to 5,000 tons	From 5,000 to 10,000 tons	From 10,000 to 50,000 tons	From 50,000 to 100,000 tons	From 100,000 to 150,000 tons	From 150,000 to 200,000 tons	From 200,000 to 300,000 tons	Over 300,000 tons	Total
Fatal .....	.....	1	.....	1	1	.....	7	1	.....	11
Serious	1	4	3	25	21	5	13	4	3	79
Slight .....	.....	13	2	40	18	2	14	5	7	101
Total	1	18	5	66	40	7	34	10	10	191

Tons of coal produced per accident:

	Under 1,000 tons	From 1,000 to 5,000 tons	From 5,000 to 10,000 tons	From 10,000 to 50,000 tons	From 50,000 to 100,000 tons	From 100,000 to 150,000 tons	From 150,000 to 200,000 tons	From 200,000 to 300,000 tons	Over 300,000 tons	Total
Fatal .....	.....	168,302	32,379	1,173,791	1,292,728	.....	176,446	473,929	.....	517,852
Serious	51,995	42,076	48,568	46,952	61,558	100,386	95,009	118,482	233,815	72,106
Slight .....	.....	12,946	.....	29,345	71,818	250,965	88,223	94,786	100,206	56,400
Total	51,995	9,350	19,427	17,785	32,318	71,704	36,327	47,393	70,144	29,824

FATAL ACCIDENTS

Thomas Jackson, miner, age 46 years, on February 21st, in the mine operated by the McGillivray Creek Coal and Coke Company, Limited, at Coleman, caused through a fall of rock in pillar workings. He was digging a post hole in the floor at face of No. 1 Pillar, No. 9 Level, when a large piece of rock fell from the roof onto his head and back. Fractured skull, causing death within a few minutes.

George Zimich, miner, age 39 years, on March 30th, in the mine operated by the Empire Collieries, Limited, at East Coulee, caused through a fall of rock at face of a cross-cut. He was loading coal at the face of a cross-cut off No. 8 Room, No. 8 West Entry, when a large piece of rock fell from the roof onto his back. Fractured spine and left thigh, also all ribs broken, causing instant death.

Michael Belius, cager, age 34 years, on April 4th, in the mine operated by the Beverly Coal Company, Limited, at Beverly, caused through his falling down the shaft. He, along with two miners, was being hoisted up the shaft at the end of the shift. The regular hoistman had gone to the tippie, the overman doing the hoisting. The cage was lifted about two feet eight inches above the landing. Belius stepped off the cage before it stopped and, losing his balance, slipped and fell, dropping between the bottom of cage and top of shaft, falling to the bottom. Fractured spine, shoulder and arm, causing instant death. He should have remained on the cage until it stopped.

Steve Vargo, miner, age 57 years, on July 8th, in the mine operated by the Hillcrest Collieries, Limited, at Hillcrest, caused through a fall of coal in pillar workings. He, along with his partner, was working at the face of No. 3 Pillar, North Entry, when a piece of top coal dropped onto his shoulders. Crushed chest and ribs broken, which punctured his lungs. He died from the effects of the injuries 9½ hours later.

William Oakes, miner, age 61 years, on July 10th, in the mine operated by the West Canadian Collieries, Limited, at Blairmore, caused through a fall of coal. He, along with his partner, was working at the face of a pillar in No. 5 Cross-cut, No. 117 Room, taking down coal, when a large piece of coal fell on top of him. Broken ribs and crushed chest, also punctured lungs, causing internal bleeding, from the effects of which he died 7 hours later.

Harold Henderson, locomotive engineer, age 39 years, on July 27th, at the mine operated by Hillcrest Collieries, Limited, at Hillcrest, caused through electric shock. He was inside the locomotive boiler with an electric extension cord getting ready to wash out the boiler. The cord must have short circuited, and he received an electric shock from the effects of which he died.

Mike Matty, machine man's helper, age 35 years, on August 12th, in the mine operated by the Lethbridge Collieries, Limited, at Shaughnessy, caused through his being caught by the cutter chain of coal-cutting machine. He was helping on an electrically operated coal-cutter and attempted to move the jack bar whilst the machine was in operation. He slipped and fell onto the cutter chain. Severe lacerations and fracture of the right leg, from the effects of which he died 5½ hours later.

Joseph Kubasek, miner, age 42 years, on September 21st, in the mine operated by the West Canadian Collieries, Limited, at Bellevue, caused through a fall of coal in pillar workings. He was working in No. 116 Pillar, No. 6 Level, when a large piece of coal fell from the rib side, striking him and knocking him down. Compound comminuted fracture of right leg below knee, necessitating amputation. He died from shock whilst undergoing the operation four days later.

George Chalus, miner, age 52 years, on October 23rd, in the mine operated by the Midland Coal Mining Company, Limited, at Drumheller, caused through a fall of coal and rock. He was working at the face of No. 10 Room, No. 19 North off No. 3 West, and apparently was taking down top coal before putting up timber when some coal and rock fell on top of him. Fracture of occiput, also fractured pelvis, causing instant death.

Walter Gembal, miner, age 38 years, on October 28th, in the mine operated by John May and partner, near Edmonton, caused through an ignition of gas by open light. He, along with another workman, went down the shaft with the overman, who was making his inspection before commencement of work. He was going to the face before inspection was made,

and gas was ignited from his open light. He received severe burns to head, face, chest and arms, from the effects of which he died on November 1st.

Victor Stanish, box car loader engineer, age 47 years, on November 4th, at the mine operated by the Canmore Coal Company, Limited, at Canmore, caused through his being run over by railroad cars. He was crossing the railroad tracks in the mine yard, and apparently did not see an empty asphalt tank car which was being lowered on the track. The car struck him knocking him down with his legs across the rails, the wheels passing over his legs. Both legs badly crushed and internal injuries, from the effects of which he died 3½ hours later.

In addition to the above fatal accidents the following persons died as a result of being injured during the year 1935:

George Tolas, miner, age 35 years, on October 16th, 1935, in the mine operated by the Murray Collieries, Limited, at East Coulee, caused through a fall of rock. He was mining coal at the corner of No. 5 Pillar, No. 1 Room Entry, when a fall of rock occurred. When jumping back from a large piece he was struck between the shoulders by a smaller piece. Crushed first dorsal and fractured spinal column, from the effects of which he died May 8th, 1936.

Albert Stec, miner, age 31 years, on October 10th, 1935, in the mine operated by the Elgin Coal Company, Limited, at Drumheller, caused through a fall of rock. He was working at the face of No. 6 Room, 3rd West Entry, when a piece of rock from the roof fell onto his leg. Compound fracture and dislocation of the left ankle, from the effects of which he died May 28th, 1936.

Accidents as they occurred by months during the year 1936:

Months	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
January						9	13	22	22
February		1	2	3	1	10	12	23	26
March			1	1	1	1	8	10	11
April					1	3	9	13	13
May						3	5	8	8
June		1	2	3		4	4	8	11
July	1			1	2		6	8	9
August					1	5	4	10	10
September		2		2	1	6	8	15	17
October		3	2	5	2	16	7	25	30
November	1	1	2	4		2	8	10	14
December		1		1		11	8	19	20
Total	2	9	9	20	9	70	92	171	191

Accidents occurring in the Province above and under ground during the year 1936:

Cause	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Haulage		3	1	4		24	21	45	49
Fall of rock					2	21	15	38	36
Fall of rock and coal ..					1			1	1
Fall of coal					3	5	11	19	19
Shot-firing							3	3	3
Coal-cutting machinery:									
Electrical					1	6	10	17	17
Compressed Air						1		1	1
Ignition of gas					1	2	4	7	7
Loading coal and rock ..						2	4	6	6
Chute loading						1	2	3	3
Timbering						3	10	13	13
Shaft					1	1	1	3	3
Electricity	1	1	1	3					3
Tipple									1
Box car loaders									1
Railroad cars	1	2		5					5
Rock drilling							1	1	1
Miscellaneous		3	3	6		4	10	14	20
Total	2	9	9	20	9	70	92	171	191

Accidents occurring in the Province above and under ground for the year 1936, classified according to the areas in which they occurred:

DOMESTIC

Area	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Ardley			1	1					1
Camrose						2		2	2
Carbon						1		1	1
Castor		1	1	2			2	2	4
Champion						1	1	2	2
Drumheller		1	2	3	2	26	23	51	54
Edmonton					2	12	30	44	44
Lethbridge			2	2	1	12	4	17	19
Milk River							1	1	1
Pembina						2	3	5	5
Sheerness		1		1		1		1	2
Taber							1	1	1
No Area							1	1	1
Total		3	6	9	5	57	66	128	137

SUB-BITUMINOUS

Coalspur		2	1	3		1	3	4	7
Pekisko			1	1					1
Prairie Creek		1		1					1
Saunders							1	1	1
Total		3	2	5		1	4	5	10

BITUMINOUS

Cascade	1			1		1	6	7	8
Crownsnest	1	1		2	4	6	8	18	20
Mountain Park		2	1	3		4	6	10	13
Nordegg						1	2	3	3
Total	2	3	1	6	4	12	22	38	44

	3	6	9	5	57	128	137
Fall of coal at face of entry					1	4	4
Fall of coal at face of room					2	4	4
Fall of coal in ascent						1	1
Shot-firing, struck by prop, shot blowing through a crosscut						1	1
Shot-firing, went back too soon on shot, struck by flying coal					2	2	2
Electric coal-cutting machine, arm jammed between end of machine and roof					1	1	1
Electric coal-cutting machine, struck by jack					3	7	7
Electric coal-cutting machine, coal fell on foot, fractured toes					1	1	1
Electric coal-cutting machine, unloading cutter bar, hand jammed					1	1	1
Electric coal-cutting machine, moving jack, slipped and fell on cutter chain				1		1	1
Electric coal-cutting machine, struck by piece of coal from cutter chain					1		1
Electric coal-cutting machine, foot jammed by machine					1	1	1
Electric coal-cutting machine, slipped and fell in front of machine					1	1	1
Electric coal-cutting machine, hand caught in feed chain					2	2	2
Electric drilling machine, hand caught, twisted and fractured arm					1	1	1
Coal-cutting, compressed air, jammed by rock against machine					1	1	1
Ignition of gas, ignition of CH ₄ by open light				1	2	5	5
Ignition of gas by electrically operated coal-cutter					2	2	2
Loading coal, lump dropped on foot					1	1	1
Loading coal, struck by derailed car					1	1	1
Loading coal, coal rolled onto his leg, fracturing same					1	1	1
Loading rock, hand jammed					1	1	1
Timbering, rock dropped on leg					1	1	1
Timbering, foot cut with axe					1	1	1
Timbering, rock dropped on foot					1	1	1
Timbering, driving timber, struck by hammer					1	1	1
Timbering, timber fell on foot					1	1	1
Timbering, timber fell on hand					1	1	1
Timbering, using axe, cut off finger					1	1	1
Timbering, axe slipped, cut knee					3	4	4
Shaft, fell down shaft				1	1	2	2
Caging, slipped and fell under descending cage					1	1	1
Electricity, burnt when testing switch			1				
Tipple, dumping coal, slipped and fell off tipple			1				
Railroad cars, slipped in front of moving cars, foot cut off	1		1				
Railroad cars, hand jammed between cable and block			1				
Railroad cars, moving lever, slipped, striking him on face			1				
Miscellaneous, slipped and fell walking down slope			1				
Miscellaneous, carrying timber, slipped and fell					1		
Miscellaneous, struck arm against timber whilst mining						1	1
Miscellaneous, fell in water, carbide burns on hip						1	1
Miscellaneous, slipped and fell against gears of which			1				
Miscellaneous, moving machinery, finger broken			1				
Miscellaneous, slipped while walking on entry					1		
Miscellaneous, slipped and fell, hand struck nail					1		
Miscellaneous, struck by flying coal from pick					1		
Total	3	6	9	5	57	128	137

SUB-BITUMINOUS

Cause	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Rope Haulage, spragging cars at foot of slope, foot caught	1	.....	.....	1	1
Rope Haulage, fell in front of moving trip	1	.....	1	.....	.....	.....	.....	1
Chute loading, slipped and fell from chute to track	1	.....	1	1
Chute loading, struck by piece of coal rolling down chute	1	1	1
Timbering, slipped and fell off scaffold	1
Rock drilling, moving rock drill, hand jammed between machine and floor	1
Electricity, came into contact with bare wire at transformer	1	.....	1	.....	.....	.....	.....	1
Box-car loader, struck by piece of coal rolling down chute	1	1	.....	.....	.....	.....	1
Railroad cars, fell off top of box-car	1	.....	1	.....	.....	.....	.....	1
Miscellaneous, oiling engine, slipped and fell against drum	1	1	.....	.....	.....	.....	1
Total	3	2	5	.....	1	4	5	10

BITUMINOUS

Rope Haulage, uncoupling cars, jammed between cars .....	.....	.....	.....	.....	.....	.....	.....	.....	1
Rope Haulage, lifting derailed car at face of slope, jammed against prop .....	.....	.....	.....	.....	.....	.....	1	1	1
Rope Haulage, pushing empty car, caught between trip and car .....	.....	.....	.....	.....	.....	1	.....	1	1
Rope Haulage, rope broke, struck by flying end .....	.....	1	.....	1	.....	.....	.....	.....	1
Rope Haulage, spragging cars at foot of slope, hand jammed .....	.....	.....	.....	.....	.....	1	.....	1	1
Rope Haulage, struck by car on slope .....	.....	.....	.....	.....	.....	.....	1	1	1
Rope Haulage, standing in man hole, struck by passing trip .....	.....	.....	.....	.....	.....	1	.....	1	1
McGinty Rope Haulage, hand caught between rope and wheel .....	.....	.....	.....	.....	.....	1	.....	1	1
Horse Haulage, struck by moving car .....	.....	.....	.....	.....	.....	.....	1	1	1
Compressed Air Locomotive Haulage, ran into a standing trip .....	.....	.....	.....	.....	.....	.....	1	1	1
between cars .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Electric Locomotive Haulage, jammed between car and timber .....	.....	.....	.....	.....	.....	1	.....	1	1
Manual Haulage, changing switch, struck by car being pushed from face .....	.....	.....	.....	.....	.....	1	.....	1	1
Fall of rock at face of slope .....	.....	.....	.....	.....	.....	.....	.....	.....	2
Fall of rock at face of room .....	.....	.....	.....	.....	.....	.....	2	2	3
Fall of rock in pillar workings .....	.....	.....	.....	.....	.....	1	1	1	3

[illegible]

THE MINES BRANCH

Accidents during 1936, classified according to the Mine in the Domestic Field in which they occurred:

DOMESTIC

Name of Operator	Area	Above Ground			Under Ground			Total Above and Under Ground
		Fatal	Serious	Slight	Fatal	Serious	Slight	
Super-Heat Coal Co., Ltd.	Ardley	1						1
Stoney Creek Collieries, Limited	Canrose					1		1
Red Flame Coal Company	Canrose					1		1
Balagh Coal Company, Limited	Carbon					1		1
Ose and King	Castor		1					2
J. B. Remillard	Castor					1		1
David James	Castor						1	1
Novak and Vanbesien	Champion					1		1
Mrs. Arline Herbaut	Champion					1		1
Newcastle Coal Company, Limited	Drumheller					2	1	3
Rosedale Collieries, Limited	Drumheller				1	1		2
Midland Coal Mining Company, Limited	Drumheller					4	3	7
Red Deer Valley Coal Company, Limited	Drumheller					1		1
Rosedale Collieries, Limited (Aerial)	Drumheller					4	1	5
Murray Collieries, Limited	Drumheller				1	1	2	4
Western Gem Coal Company, Limited	Drumheller					4		4
Mutual Supplies, Limited	Drumheller					1		1
Maple Leaf Minerals, Limited	Drumheller					1		1
Superior Grade Coal Company, Limited	Drumheller					1		1
The Cambrian Coal Company, Limited	Drumheller					1		1
Elgin Coal Company, Limited	Drumheller					1		1
Ideal Coal Company, Limited	Drumheller					1		1
Brilliant Coal Company, Limited	Drumheller					1		1
Empire Collieries, Limited (No. 2 Mine)	Drumheller					2	3	5
Empire Collieries, Limited (No. 1 Mine)	Drumheller	1				1		2
Hy-Grade Coal Company, Limited	Drumheller				1	1	3	5
The Monarch Coal Mining Company, Limited	Drumheller					3	2	5
Atlas Coal Co., Ltd.	Drumheller					2	2	4
Murray Collieries, Limited	Drumheller					3	6	9
Great West Coal Company, Limited	Edmonton					1		1
Dawson Coal, Limited	Edmonton					1		1
Penn Coals, Limited	Edmonton					2	2	4
Kelstar Coals, Limited	Edmonton					1	3	4
Marcus Coals, Limited	Edmonton					2	2	4
Carbondale Collieries, Limited	Edmonton					1	3	4
Edina Coal Company, Limited	Edmonton					1	1	2
Kost Nimko	Edmonton					1	1	2
Ellerslie Collieries	Edmonton					1	1	2
Steve Poholka	Edmonton					1	1	2
Beverly Coal Company, Limited	Edmonton					1	1	2
Klapstein and Opalinski	Edmonton				1	1	1	3
Kent Coal Company, Limited	Edmonton					5	11	16

John May and Partners	Edmonton	1	1	1	3	3
J. J. Hamilton Coal Company	Lethbridge	1	1	1	1	1
J. J. Hollingson	Lethbridge	1	1	1	2	2
Royal Lethbridge Collieries	Lethbridge	1	1	1	1	1
Degaust, Nelson and Lund	Lethbridge	1	8	1	10	12
Lethbridge Collieries, Limited (Shaughnessy)	Lethbridge	2	1	1	2	2
Lethbridge Collieries, Limited (No. 8 Mine)	Milk River	1	1	1	1	1
Tim Speed	Pembina	1	2	3	5	5
Lakeside Coals, Limited	Sheerness	1	1	1	1	1
B. A. Kirkeby	Sheerness	1	1	1	1	1
E. J. Unsworth	Taber	1	1	1	1	1
E. Oliver	No Area	1	1	1	1	1
Messmer Coal Company						
Total		3	6	9	57	128
						137

SUB-BITUMINOUS

McLeod River Hard Coal Company, Limited	Coalspur	2	1	3	1	3	4	7
Fish Creek Coal Company	Pekisko	1	1	1	1	1	1	1
Jasper Coal, Limited	Prairie Creek	1	1	1	1	1	1	1
Bighorn and Saunders Creek Collieries, Ltd.	Saunders					1	1	1
Total		3	2	5	1	4	5	10

BITUMINOUS

The Canmore Coal Company, Limited	Cascade	1	1	1	1	6	7	8
Hillcrest Collieries, Limited	Crownest	1	1	1	1	1	1	2
West Canadian Collieries, Limited (Bellevue)	Crownest	1	1	1	1	4	5	1
International Coal & Coke Company, Limited	Crownest	1	1	1	1	2	3	3
Mohawk Bituminous Mines, Limited	Crownest	1	1	1	1	1	4	4
McGillivray Creek Coal & Coke Co., Ltd.	Crownest	1	1	1	1	1	4	4
West Canadian Collieries, Ltd. (Greenhill)	Crownest	1	1	2	1	3	4	6
Mountain Park Collieries, Limited	Mountain Park	1	1	1	1	3	4	4
Cadomin Coal Company, Limited	Mountain Park	1	1	1	1	2	2	3
Luscar Collieries, Limited	Nordegg	1	1	1	1	2	3	3
Brazeau Collieries, Limited								
Total		2	3	6	4	12	38	44

SUMMARY

Name of Operator	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Domestic .....	.....	3	6	9	5	57	66	128	137
Sub-Bituminous .....	.....	3	2	5	.....	1	4	5	10
Bituminous	2	3	1	6	4	12	22	38	44
Total	2	9	9	20	9	70	92	171	191

LIST OF PROSECUTIONS INSTITUTED UNDER THE COAL-MINES REGULATION ACT DURING 1936:

Mine in which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Red Bell Mine, Sundre	Overman	Working with an open light in safety lamp mine	Convicted	Fined \$5.00 and costs	\$.50
Red Bell Mine, Sundre	Overman	Firing shots with fuse instead of electric battery	Convicted	Fined \$10.00 and costs	.50
Red Bell Mine, Sundre	Car pusher	Working with an open light in a safety lamp mine	Convicted	Fined \$5.00 and costs	1.00
Thomas Steegstra	Overman	Failed to see that airways were inspected at least once a week	Convicted	Fined \$10.00 or 14 days	2.00
Thomas Steegstra	Overman & Owner	Employed a person at the face who had no certificate	Convicted	Fined \$10.00 or 14 days	2.00
Thomas Steegstra	Farmer & Miner	Worked at working face without a certificate	Convicted	Fined \$10.00 or 14 days	2.00
Cadomin Coal Co., Ltd.	Miner	Did leave the mantrip while it was in motion contrary to the written orders of the Manager	Convicted	Fined \$20.00 or 30 days	4.25
Mountain Park Collieries, Ltd.	Miner	Did use coal dust for the purpose of tampering a shot in coal at face of No. 7 East entry No. 1 slope	Convicted	Fined \$20.00 or 30 days	1.75
Northern Coal Co., Ltd.	Mgr. & Overman	Allowed persons to work more than 8 hours	Convicted	Fined \$5.00	4.25
Northern Coal Co., Ltd.	Mgr. & Overman	Failed to have times men were underground truly reported in book	Convicted	Fined \$5.00	4.25
Hamilton & Vargo	Owner	Allowed men to go to work without the mine having been examined by an examiner	Convicted	Fined \$20.00 or 30 days	4.25
Hamilton & Vargo	Owner	Allowed men to go to work without the mine having been examined by an examiner	Convicted	Fined \$20.00 or 30 days	4.25
Hamilton & Vargo	Owner	Went to work without the mine having been examined by a competent person and report posted	Convicted	Fined \$1.00 or 30 days	.50
Hamilton & Vargo	Owner	Went to work without the mine having been examined by a competent person and report posted	Convicted	Fined \$1.00 or 30 days	.50
Hamilton & Vargo	Miner	Went to work without the mine having been examined by a competent person and report posted	Convicted	Fined \$1.00 or 30 days	.50
Hamilton & Vargo	Miner	Went to work without the mine having been examined by a competent person and report posted	Convicted	Fined \$1.00 or 30 days	.50
Hamilton & Vargo	Miner	Went to work without the mine having been examined by a competent person and report posted	Convicted	Fined \$1.00 or 30 days	.50
W. F. Miller	Owner	Went to work without the mine having been examined and without a report having been posted	Convicted	Fined \$1.00 or 10 days	4.25
John May	Overman	Did fail to report gas as required by Sec. 66, clause (h)	Convicted	Fined \$10.00 or 30 days	5.00
John May	Overman	Did fail to inspect mine before starting shift	Convicted	Fined \$45.00	

THE MINES BRANCH

Number of Mines opened, abandoned, and re-opened according to Areas and Kind of Coal, during the year:

Area	Area Number	Character of Coal	No. of Mines in operation Dec. 31, '36	Mines opened during year	Mines re-opened during year	Mines closed, but not abandoned during year	Mines abandoned during year	Name and Address of District Inspector of Mines
Ardley	1	Domestic	14	2	..	B. Nugent, Camrose, Alberta. Tel. No. 72.
Big Valley	2	Domestic	5	..	..	1	1
Camrose	5	Domestic	8	..	1	1	..	
Carbon	6	Domestic	17	1	..	..	1
Castor	8	Domestic	33	2	2	2	..	
Edmonton	15	Domestic	37	2	..	1	1	
Rochester	35	Domestic	1	1	..	..	3
Tofield	42	Domestic	4	..	..	..	..
Wetaskiwin	45	Domestic	3	2	..	1	..	
Brooks	3	Domestic	2	1	J. B. deHart, Lethbridge, Alberta. Tel. No. 3325.
Champion	9	Domestic	10	..	..	1	1
Lethbridge	20	Domestic	18	..	1	3	1	
Magrath	21	Domestic	2	..	..	..	1
Milk River	22	Domestic	3	..	..	..	..
Pakowki	28	Domestic	5	..	..	1	1
Redcliff	34	Domestic	2	..	..	..	..
Taber	41	Domestic	10	1	..	2	2	
Coalspur	11	Sub-Bituminous	6	Thomas Horne, Edson, Alberta. Tel. No. 35. Residence.
Mountain Park	24	Bituminous	4	..	2	1	..	
Pembina	31	Domestic	4	2	..	..	..
Prairie Creek	33	Sub-Bituminous	2	..	..	..	..
Crowsnest	12	Bituminous	10	1	1	W. E. G. Hall, Blairmore, Tel. No. 70.
Cascade	7	Bituminous	2	..	..	..	..
Drumheller	14	Domestic	8	..	2	1	1	
(Wayne)	17	Domestic	4	..	..	..	1
Morley	23	Sub-Bituminous	1	..	1	..	..
Nordeg	25	Bituminous	1	..	..	..	..
Pekisko	30	Sub-Bituminous	4	..	..	1	..
Pincher	32	Sub-Bituminous	3	..	1	..	..
Saunders	36	Sub-Bituminous	2	..	..	1	..
No Area .....	..	Domestic	1	..	..	1	..
Drumheller	14	Domestic	21	2	..	3	2	A. B. Hunter, Drumheller, Alberta. Tel. No. 413.
Gleichen	17	Domestic	4	..	..	..	..
Sheerness	38	Domestic	16	1	..	4	..	
Halcourt	18	Domestic	5	..	1	..	1	
Whitcourt	46	Domestic	1	J. A. Richards, Edmonton, Alberta. Tel. No. 916415.
Pakan	27	Domestic	1	..	..	..	..
Sexsmith	37	Domestic .....	..	1	..	..	1
No Area .....	..	Domestic	3	2	..	..	1
Total			277	17	11	28	30	

In addition to the above, Mr. James A. Richards, 11009 89th Avenue, Edmonton, is acting in the capacity of General District Inspector of Mines, Telephone No. 32662.

BOARD OF EXAMINERS

The Board during the year 1936 consisted of the following:

As representing:

- (a) The Mine Inspectorate:
Andrew A. Millar, Chief Inspector of Mines.
 - (b) Managers:
Norman Fraser, Robert Livingstone.
 - (c) Working Miners:
William Lammie, Evan Morgan.
- Secretary:
James A. Richards.

Examinations during the year were held as follows:

For third-class at the following centres: Drumheller, May 5, 6, 7, 8 and 9; Edmonton, May 5, 6 and 7; Cadomin, May 5; Blairmore, May 5; Lethbridge, May 5, 6 and 7; Grande Prairie, May 7 and 8; Nordegg, May 1; Canmore, May 5.

For first and second-class on June 3, 4 and 5 at Blairmore, Cadomin, Drumheller and Edmonton.

For mine surveyors' on June 5 at Blairmore, Edmonton and Drumheller.

Twelve candidates presented themselves for examination for first-class certificates, of whom three were successful.

Twenty-two candidates presented themselves for examination for second-class certificates, of whom eight were successful. In addition, two candidates presented themselves for supplementary examination, of whom one was successful. This examination is in accordance with Rule 9b of the Rules Governing Examinations for second-class certificates.

Forty-two candidates presented themselves for examination for third-class certificates, of whom twenty were successful.

Four candidates presented themselves for examination for mine surveyors' certificates, of whom two were successful.

The successful candidates are in the list following herewith:

List of Names of Holders of First-Class Certificates Issued by the Government of the Province of Alberta during the year 1936:

Name	Address	Cert. No.	Date of Issue
Barclay, William	Drumheller	11	31- 7-36
Burton, John T.	Edmonton	13	8- 8-36
Goodwin, William	Bellevue	12	4- 8-36

List of Names of Holders of Second-Class Certificates Issued by the Government of the Province of Alberta during the year 1936:

Brown, John D. B.	Mountain Park	55	4-11-36
Edwards, Mark	East Coulee	50	7- 8-36
Edwards, Oliver E.	Cadomin	53	12- 8-36
Fawcett, Elmer S.	Cardiff	51	7- 8-36
Heyworth, Ernest S.	Edmonton	45	2- 6-36
Hillary, Joseph	Bellevue	49	7- 8-36
Kennedy, Joseph	Willow Creek	47	31- 7-36
Moran, James	Edmonton	46	28- 7-36
Mayoh, Daniel	East Coulee	48	7- 8-36
Parker, Jack	Cardiff	52	6- 8-36
Rear, Albert E.	Coleman	56	15-12-36
Strickland, Thomas	Three Hills (Duplicate)	54	16-10-36

List of Names of Hlders of Third-Class Certificates Issued by the Government
of the Province of Alberta during the year 1936:

Name	Address	Cert. No.	Date of Issue
Aitchison, Peter	Lethbridge	230	22- 6-36
Adamson, Alexander	Perbeck	231	22- 6-36
Broderick, Gideon	Canmore	221	10- 3-36
Budesheim, August E.	Dimsdale	238	20- 8-36
Chemotti, Guiseppe	Lethbridge	239	25- 8-36
Douglas, Peter S. Jr.	Cadomin	233	22- 6-36
Garner, E. Denison	Canmore	222	3- 6-36
Hilbert, Waddington	Mercoal	240	13-10-36
Johnson, Martin R.	Rumsey	234	22- 6-36
Lewis, Fred	Mountain Park	227	22- 6-36
Lister, Arthur L.	Cadomin	232	22- 6-36
Miller, Douglas	Edmonton	236	4- 7-36
McKinlay, James	Perbeck (Duplicate)	224	3- 6-36
McDonald, Wm. I.	Drumheller	235	22- 6-36
Nielsen, Nils P.	Carbondale	223	3- 6-36
Peta, Julius	Hardieville	225	4- 6-36
Purdy, Denzil	Lundbreck	237	4- 7-36
Rebar, George	Lethbridge	229	22- 6-36
Shaw, Robert	Coleman	226	22- 6-36
Thomas, David R.	Ryley	241	6-11-36
Van Schoorl, August	Coleman	228	22- 6-36

List of Names of Holders of Mine Surveyors' Certificates Issued by the
Government of the Province of Alberta during the year 1936:

Hewitt, Herbert E.	Blairmore	6	7- 8-36
Jones, John R. B.	Hinton	5	1- 8-36

INDEX

i
Page

A

Accidents, fatal, above ground	17
fatal, below ground	17
serious, above ground	17
serious, below ground	17
slight, above ground	17
slight, below ground	17
total number from 1906 to 1936, inclusive	81
total number in each field for 1936	81
classified according to outputs	84
tons extracted according to mines producing, per	84
tons produced in domestic coal field by districts	83
tons produced in sub-bituminous coal field by districts	83
tons produced in bituminous coal field by districts	83
comparison per 1,000,000 tons produced and per 1,000 men employed, 1915-1936 (inclusive)	82
description of each fatal	85-86
by months	86
tabulated list of total	87
tabulated and classified according to districts	87
classified in domestic fields according to cause	88-89
classified in sub-bituminous fields according to cause	90
classified in bituminous fields according to cause	90-91
classified according to mines in domestic field	92-93
classified according to mines in sub-bituminous field	93
classified according to mines in bituminous field	93
Alberta, annual production of coal and value of same, 1886 to 1935, inclusive (Dominion Bureau of Statistics)	9
total importation bituminous coal, 1919 to 1936, inclusive (Dominion Bureau of Statistics)	12
mineral production, 1935 and 1936 (Dominion Bureau of Statistics)	16
bricks, total used from shale mines	18
total sales of briquettes for consumption in	20
domestic coal sold for consumption as lump, in	31
domestic coal sold for consumption as mine run, in	32
domestic coal sold for consumption as nut, in	33
domestic coal sold for consumption as slack, in	33
sub-bituminous coal sold for consumption as lump, in	34
sub-bituminous coal sold for consumption as mine run, in	34
sub-bituminous coal sold for consumption as nut, in	34
sub-bituminous coal sold for consumption as slack, in	35
bituminous coal sold for consumption as lump, in	35
bituminous coal sold for consumption as mine run, in	35
bituminous coal sold for consumption as nut, in	35
bituminous coal sold for consumption as slack, in	36
Annual production, Alberta, 1905 to 1936, inclusive	17
North-West Territories (Alberta and Saskatchewan), 1901 to 1904, inclusive	17
Annual consumption of Canadian coal, 1902 to 1935, inclusive (D.B. of S.)	10
of imported coal, 1902 to 1935, inclusive (D.B. of S.)	10
of coal per capita, 1902 to 1935, inclusive (D.B. of S.)	10
coal importation, 1919 to 1936, inclusive (D.B. of S.)	12
coal importation, monthly, 1936 (D.B. of S.)	14

B

Bituminous coal, importations 1919 to 1936, inclusive (D.B. of S.)	12
monthly importations, 1936 (D.B. of S.)	14
production by districts from 1932 to 1936, inclusive	28
coal, disposition of total output by districts	22
coal, disposition of total output by months	26
total production by months during 1936	30
total output of coal by districts during each month	30
total amount of coal sold by months to railroad companies	31
lump coal for consumption in Alberta	35
mine run coal for consumption in Alberta	35
nut coal for consumption in Alberta	35

	Page
slack coal for consumption in Alberta	36
lump coal for consumption in Saskatchewan	42
nut coal for consumption in Saskatchewan	43
nut coal for consumption in Saskatchewan	42
slack coal for consumption in Saskatchewan	43
lump coal for consumption in Manitoba	46
mine run coal for consumption in Manitoba	46
nut coal for consumption in Manitoba	46
slack coal for consumption in Manitoba	46
mine run coal for consumption in Ontario	48
nut coal for consumption in Ontario	49
slack coal for consumption in Ontario	49
lump coal for consumption in United States	50
mine run coal for consumption in United States	50
nut coal for consumption in United States	50
slack coal for consumption in United States	51
coal used under colliery boilers	52
coal used by colliery railroads	52
coal used making coke	53
coal used making briquettes	52
coal put to stock	53
lifted from stock	56
put on the waste heap	55
lifted from the waste heap	56
number of mines classified according to output	57
Bituminous mines, number of men employed at December 31st, 1936	59
number of men employed by districts classified as to occupation	59
total men employed each month by districts	61
per capita production for years 1910 to 1936, inclusive	63
per capita production by districts during 1936	65
number of days worked each month by districts	67
total shifts worked each month by districts	70-71
quantity of timber used by districts during 1936	72
particulars as to lamps used in	73
quantity of explosives used in coal	74
tons of coal produced per pound of explosives used	75
shots fired in coal in	76
miss-fires in blasting coal in	77
tons produced per accident in	83
accidents classified according to cause in	90-91
accidents classified according to mines in	93
Board of Examiners, report of	97
Bricks, output of shale used making	16-18
Bricks, total number sold	18
Bricks, sold for use in Alberta, B.C., Saskatchewan, and Manitoba	18
Briquettes, total production, 1936	30
Briquettes, disposition of total output, 1935 and 1936	20
British Columbia, importation bituminous coal, 1919 to 1936, inclusive	12
monthly importation bituminous coal, 1936	14
monthly importation anthracite coal, 1936	14
bricks shipped from shale mines to	18
domestic lump coal for consumption in	36
domestic mine run coal for consumption in	36
domestic nut coal for consumption in	37
domestic slack coal for consumption in	37
sub-bituminous lump coal for consumption in	37
sub-bituminous mine run coal for consumption in	37
sub-bituminous nut coal for consumption in	38
sub-bituminous slack coal for consumption in	38
bituminous lump coal for consumption in	38
bituminous mine run coal for consumption in	38
bituminous nut coal for consumption in	39
bituminous slack coal for consumption in	39
Burrell gas detector	5

INDEX

iii

Page

C

Canada, total monthly importation bituminous coal, 1936 (D.B. of S.)	14
total monthly importation anthracite coal, 1936 (D.B. of S.)	14
total monthly importation lignite coal, 1936 (D.B. of S.)	15
Canadian coal, annual consumption of, 1919 to 1936 (D.B. of S.)	12
Certificates issued during 1936, first class	17
issued during 1936, second class	17
issued during 1936, third class	17
issued during 1936, mine surveyors'	17
total issued to December 31st, 1936, first class	17
total issued to December 31st, 1936, second class	17
total issued to December 31st, 1936, third class	17
total issued to December 31st, 1936, mine surveyors'	17
list of first class certificates issued, 1936	97
list of second class certificates issued, 1936	97
list of third class certificates issued, 1936	98
list of mine surveyors' certificates issued, 1936	98
number of provisionals issued	17
Chief Inspector, annual report of	5-8
Classification of output, 1901 to 1936	19
Coal, annual production and value, 1886 to 1935	9
total production in 1936	17
mines, number in operation	5-16-96
number opened	5-16-96
number re-opened	5-16-96
number abandoned	5-16-96
number closed	5-16-96
number in operation at December 31st, 1936	5-16-96
comparison of outputs by districts	28
disposition of total output, 1935 and 1936	20
domestic, disposition of total output by districts	21
domestic, disposition of total output by months	24
sub-bituminous, disposition of total output by districts	22
sub-bituminous, disposition of total output by months	25
bituminous, disposition of total output by districts	22
bituminous, disposition of total output by months	26
bituminous, used making briquettes by months	52
bituminous, used making coke by months	53
Sales by provinces from 1915 to 1936	27
total production of each class by months during 1936	30
total production by months during 1936	23
total shipments to each province, 1935 and 1936	20
tonnage produced per pound of explosive used by districts in each field	75
produced per electrical horse-power used	80
cutting machinery, tonnage produced by	80
Coke, total production by months	30
disposition, 1935 and 1936	20
Colliery boilers, total coal used under	5-20-23
domestic coal used under	20-21-24-51
sub-bituminous coal used under	20-22-25-51
bituminous coal used under	20-22-25-52
Compressed air machines and tonnage produced by	80
Crowsnest, amount of purchased electrical power used in	6

D

Days worked each month by districts, domestic field	66
each month by districts, sub-bituminous field	67
each month by districts, bituminous field	67
Districts, names and numbers with inspectors	96
Domestic coal, disposition of total output by districts	21
disposition of total output by months	24
produced by districts from 1932 to 1936, inclusive	28
produced by months during 1936	29
total output by districts during each month	29
sold as lump for consumption in Alberta	31
sold as mine run for consumption in Alberta	32

	Page
sold as nut for consumption in Alberta	33
sold as slack for consumption in Alberta	33
sold as lump for consumption in British Columbia	36
sold as mine run for consumption in British Columbia	36
sold as nut for consumption in British Columbia	37
sold as slack for consumption in British Columbia	37
sold as lump for consumption in Saskatchewan	39
sold as mine run for consumption in Saskatchewan	40
sold as nut for consumption in Saskatchewan	40
sold as slack for consumption in Saskatchewan	41
sold as lump for consumption in Manitoba	43
sold as mine run for consumption in Manitoba	44
sold as nut for consumption in Manitoba	44
sold as slack for consumption in Manitoba	44
sold as lump for consumption in Ontario	47
sold as mine run for consumption in Ontario	47
sold as nut for consumption in Ontario	47
sold as lump for consumption in United States	49
sold as nut for consumption in United States	49
sold as slack for consumption in United States	50
used by colliery boilers	51
used by colliery railroads	52
put to stock	53
lifted from stock	55
put on the waste heap	54
lifted from the waste heap	56
per capita production for the years 1910 to 1936, inclusive	62
per capita production by districts	65
number of mines, classified according to output	57
mines, number of men employed at December 31st, 1936, in	58
number of men employed by districts classified	
as to occupation	58
total men employed each month by districts	60
number of days worked each month by districts	66
total number of shifts worked	70-71
total number of shifts worked above and below	
ground each month	68-69
quantity of timber used by districts	72
quantity of explosive used in coal	74
tons of coal produced per pound of explosive used in	75
shots fired in coal	76
miss-fires in blasting coal	77
tons of coal produced per accident	83
accidents classified according to cause	88-89
accidents classified according to mines	92-93
amount of purchased electrical power used in	
Drumheller	6
E	
Edmonton District, amount of purchased electrical power used in	6
Electric Lamps, Edison type	73
Oldham type	73
Wico type	73
Ceag type	73
Wolfe type	73
Electricity, number of mines using	80
number of machines operating and tonnage produced by	80
tons produced per electrical horse-power	80
amount of purchased power used	6-17
Employees, average number above ground	17
average number below ground	17
Examinations, results of	97
Explosives, blasting coal, domestic coal field	74
blasting coal, bituminous coal field	74
blasting coal, sub-bituminous coal field	74
quantity used blasting rock	78

INDEX

v

Page

F

Fatal accidents, above ground	17
below ground	17
Farmers' Domestic Coal Permits, output, men employed, shifts worked	18
First Class Certificates, issued in 1936	97
Fort Frances, importation bituminous coal, 1919 to 1936, inclusive	12
Fort William, importation bituminous coal, 1919 to 1936, inclusive	12
Fort Francis, monthly importation bituminous coal, 1936	14
monthly importation anthracite coal, 1936	14
Fort William, monthly importation bituminous coal, 1936	14
monthly importation anthracite coal, 1936	14

I

Introduction	5-8
Importations, anthracite, 1919 to 1936, inclusive	12
bituminous coal, 1919 to 1936, inclusive	12
monthly bituminous coal, 1936	14
monthly lignite coal, 1936	15
monthly anthracite, 1936	14
total, 1936	15
coke, 1934 to 1936, inclusive	11
Imported coal, annual consumption of	10
Inspectors, names of and districts	96

L

Lamps, number of Wolfe type	73
number of Edison electric type	73
number of Ceag electric type	73
number of Oldham electric type	73
number of Wico electric type	73
number of Koehler type	73

M

Manitoba, importation of bituminous coal	12
monthly importation of lignite coal, 1936	15
monthly importation of bituminous coal, 1936	14
monthly importation of anthracite coal, 1936	14
bricks shipped from shale mines to	18
total amount of domestic coal sold for consumption in	20
total amount of sub-bituminous coal sold for consumption in	20
total amount of bituminous coal sold for consumption in	20
domestic coal, lump, for consumption in	43
domestic coal, mine run, for consumption in	44
domestic coal, nut, for consumption in	44
domestic coal, slack, for consumption in	44
sub-bituminous coal, lump, for consumption in	45
sub-bituminous coal, mine run, for consumption in	45
sub-bituminous coal, nut, for consumption in	45
sub-bituminous coal, slack, for consumption in	45
bituminous coal, lump, for consumption in	46
bituminous coal, mine run, for consumption in	46
bituminous coal, nut, for consumption in	46
bituminous coal, slack, for consumption in	46
Men, average number employed above ground	17
average number employed below ground	17
employed at shale mines	18
total number employed at December 31st, 1936, in each field	59
employed domestic field classified according to occupation and districts	58
employed sub-bituminous field classified according to occupation and districts	59
employed bituminous field classified according to occupation and districts	59
accidents, per 1,000 men employed	82
total employed domestic field each month by districts	60

	Page
total employed sub-bituminous field each month by districts	61
total employed bituminous field each month by districts	61
Mineral production of Alberta, 1935 and 1936	16
Mine air samples	5
Mines, number classified according to output	57
number in operation	5-16-96
number opened	5-16-96
number re-opened	5-16-96
number abandoned	5-16-96
number of shale in operation	16
Mine Surveyors, certificates issued in 1936	98
N	
Number of men employed above ground (average)	16
below ground (average)	16
O	
Officials, number prosecuted	6-95
Ontario, total importations bituminous coal, 1919 to 1936, inclusive	12
total importations central, 1919 to 1936, inclusive	12
monthly importation bituminous coal, 1936	14
monthly importation anthracite, 1936	14
total and central importations, 1936	15
total amount of domestic coal sold during each month for consumption in	24
total amount of sub-bituminous coal sold during each month for consumption in	25
total amount of bituminous coal sold during each month for consumption in	26
domestic lump and mine run coal for consumption in	47
domestic nut and slack coal for consumption in	47
sub-bituminous lump coal for consumption in	48
sub-bituminous slack coal for consumption in	48
sub-bituminous nut coal for consumption in	48
bituminous mine run coal for consumption in	48
bituminous nut coal for consumption in	49
bituminous slack coal for consumption in	49
Operators, number prosecuted	6-95
Output, North West Territories (Alberta and Saskatchewan), 1901 to 1936, inclusive	17
classification of, 1901 to 1936, inclusive	19
comparison by districts, 1932 to 1936, inclusive	28
comparison of accidents for years 1915 to 1936, per 1,000,000 tons	82
P	
Per capita consumption of coal in Canada	10
Port Arthur, importations bituminous coal, 1919 to 1936, inclusive	12
importations monthly bituminous coal, 1936	14
importations monthly anthracite coal, 1936	14
Production domestic coal by districts, 1932 to 1936, inclusive	28
sub-bituminous coal by districts, 1932 to 1936, inclusive	28
bituminous coal by districts, 1932 to 1936, inclusive	28
per capita, total from 1906 to 1936, inclusive	62
per capita, domestic, from 1910 to 1936, inclusive	62
per capita, sub-bituminous, from 1922 to 1936, inclusive	63
per capita, bituminous, from 1910 to 1936, inclusive	63
per capita, anthracite, from 1910 to 1936, inclusive	64
per capita, domestic field by districts, 1936	65
per capita, sub-bituminous field by districts, 1936	65
per capita, bituminous field by districts, 1936	65
of coal per electrical horse-power	80
total, 1935 and 1936	5-17-20-28
total disposition by provinces, 1935 and 1936	5-20
Prosecutions for contravention of The Coal-mines Regulation Act, number of	6-95
Provisional certificates issued, number of	17

INDEX

vii

Page

R

Railroads, total coal sold for consumption by	5-20-23
total amount of sub-bituminous coal sold for consumption	
by	20-22-25-30
total amount of bituminous coal sold for consumption	
by	20-22-26-31
Report of board of examiners	97
Rock, explosives used in coal-mines for blasting	78
number of shots fired for blasting	79
number of miss-fire shots in blasting	79

S

Safety lamps, number of Wolfe and Koehler type	73
Sales, total by provinces, 1915 to 1936, inclusive	27
total domestic by districts during each month	24
total sub-bituminous by districts during each month	25
total bituminous by districts during each month	26
Saskatchewan, importations bituminous coal, 1919 to 1936, inclusive	16
monthly importations bituminous coal, 1936	14
monthly importations, anthracite coal, 1936	14
bricks shipped from shale mines to	18
total amount of domestic coal sold for consumption in	20
total amount of sub-bituminous coal sold for consumption	
in	20
total amount of bituminous coal sold for consumption in	20
domestic coal sold as lump for consumption in	39
domestic coal sold as mine run for consumption in	40
domestic coal sold as nut for consumption in	40
domestic coal sold as slack for consumption in	41
sub-bituminous coal sold as lump for consumption in	41
sub-bituminous coal sold as mine run for consumption in	41
sub-bituminous coal sold as nut for consumption in	42
sub-bituminous coal sold as slack for consumption in	42
bituminous coal sold as lump for consumption in	42
bituminous coal sold as mine run for consumption in	42
bituminous coal sold as nut for consumption in	43
bituminous coal sold as slack for consumption in	43
Second class certificates, issued in 1936	97
Serious accidents, above ground	17
below ground	17
Shale, total production 1936	18
number of mines in operation	5-16
Shots, fired blasting coal in each field in districts	76
miss-fires in blasting coal in each field by districts	77
fired in blasting rock in coal mines	79
miss-fires blasting rock in coal mines	79
Stock, total coal put to	5-20-23
total coal lifted from	5-20-23
domestic coal put to	20-24-53
sub-bituminous coal put to	20-25-53
bituminous coal put to	20-26-53
domestic coal lifted from	20-24-55
sub-bituminous coal lifted from	20-25-55
bituminous coal lifted from	20-26-56
Sub-bituminous coal, disposition of total output by districts	22
disposition of total output by months	25
production by districts from 1932 to 1936, inclusive	28
production by months during 1936	30
total output by districts during each month	30
total amount sold for consumption in Alberta	20-22
total amount sold to railroads	20-22
sold as lump for consumption in Alberta	34
sold as mine run for consumption in Alberta	34
sold as nut for consumption in Alberta	34
sold as slack for consumption in Alberta	35
sold as lump for consumption in British Columbia	37

	Page
sold as mine run for consumption in British Columbia	37
sold as nut for consumption in British Columbia	38
sold as slack for consumption in British Columbia	38
sold as lump for consumption in Manitoba	45
sold as mine run for consumption in Manitoba	45
sold as nut for consumption in Manitoba	45
sold as slack for consumption in Manitoba	45
sold as lump for consumption in Ontario	48
sold as nut for consumption in Ontario	48
sold as slack for consumption in Ontario	48
used under colliery boilers	51
used by colliery railroads	52
put to stock	53
lifted from stock	55
put on the waste heap	54
lifted from the waste heap	56
number of mines classified according to output	57
mines, number of men employed at December 31st, 1936	59
number of men employed by districts classified as to occupation	59
total men employed each month by districts	61
per capita production for years 1922 to 1936, inclusive	63
per capita production for year, 1936	65
number of days worked each month by districts	67
number of shifts worked each month by districts	70-71
quantity of timber used by districts	72
quantity of explosives used in coal	74
tons of coal produced per pound of explosive used	75
number of shots fired blasting coal	76
number of miss-fire shots in blasting coal	77
coal, tons produced per accident	83
mines, accidents classified according to cause in	90
districts, accidents classified according to mines in	93
Summary of statistics	16-17
T	
Third class certificates, issued in 1936	98
Timber, quantity used in the domestic coal field	72
quantity used in the sub-bituminous coal field	72
quantity used in the bituminous coal field	72
U	
United States, total amount of domestic coal sold for consumption in 20-21-24	
total amount of sub-bituminous coal sold for consumption in	20-22-25
total amount of bituminous coal sold for consumption in	20-22-26
domestic coal, lump, sold for consumption in	49
domestic coal, nut, sold for consumption in	49
domestic coal, slack, sold for consumption in	50
bituminous coal, lump, sold for consumption in	50
bituminous coal, mine run, sold for consumption in	50
bituminous coal, nut, sold for consumption in	50
bituminous coal, slack, sold for consumption in	51
total coal sold for consumption in 1936	20
V	
Value of annual output of Alberta coal, 1886 to 1935, inclusive	9
W	
Waste heap, total coal put on	5-20-23
total coal lifted from	5-20-23
domestic coal put on	20-21-24-54

INDEX

ix

	Page
sub-bituminous coal put on	20-22-25-54
bituminous coal put on	20-22-26-55
domestic coal lifted from	20-21-24-56
sub-bituminous coal lifted from	20-22-25-56
bituminous coal lifted from	20-22-26-56
Workmen, number prosecuted	6-95

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